Bellfires
since 1928

INSTALLATION INSTRUCTIONS AND INSTRUCTIONS FOR USE

HORIZON BELL XXL - HORIZON BELL XL
HORIZON BELL LARGE - HORIZON BELL LARGE TUNNEL
CORNER BELL LARGE L/R - CORNER BELL MEDIUM L/R
VIEW BELL LARGE - VIEW BELL MEDIUM
VIEW BELL ROOM DIVIDER LARGE - VIEW BELL ROOM DIVIDER MEDIUM

Gas fires with closed combustion system

Bellfires wishes you many cosy evenings with your new Bellfires gas fire

This document is an essential part of your gas fire.
Read it carefully before installation and use of the
gas fire and keep it in a safe place!

CE

BELLFIRES GAS FIRES WITH CLOSED COMBUSTION SYSTEM:

Horizon Bell series:

Horizon Bell XXL	(HBXXL)
Horizon Bell XL	(HBXL)
Horizon Bell Large	(HBL)
Horizon Bell Large Tunnel	(HBLT)

Corner Bell series:

Corner Bell Large L/R	(CBL - L/R)
Corner Bell Medium L/R	(CBM - L/R)

View Bell series:

View Bell Large	(VWBL)
View Bell Medium	(VWBM)
View Bell Room Divider Large	(VWBRDL)
View Bell Room Divider Medium	(VWBRDM)

CONTENTS

Page

1. WARRANTY TERMS 7
2. INSTRUCTIONS FOR USE 9
3. INSTALLATION INSTRUCTIONS 22
4. MAINTENANCE 67
5. FAULTS 68
6. DISMANTLING / ASSEMBLING OF THE “HIDDEN DOOR” GLASS..... 69
7. ELECTRICAL DIAGRAM 92
8. DIMENSIONS 93
9. TECHNICAL DETAILS/REGULATIONS 102
10. REPLACEMENT PARTS LIST 106
11. DISPOSAL OF PACKAGING AND APPLIANCE 110

1 WARRANTY TERMS

Bell*fires* gas fire

Warranty

Bellfires guarantees the quality of the supplied hearth and the quality of the materials used.

This warranty runs for a period of twelve (12) months from first use of the hearth and covers defects which are a result of construction faults or the failure of component parts.

Bellfires has an obligation under the terms of this warranty (at its discretion) not to charge for the replacement of any component parts.

△ **Note:** The following aspects are **not covered** under the terms of the warranty:

- defects arising which are attributable in whole or in part to:
  - a Not paying due heed to installation, operating and maintenance instructions
  - b Fitting/installation or repair by third parties (including the buyer)
  - c Heat cracks arising in the jacket due to normal heating
  - d Discolouration in the ironwork as a result of heat transfer
- the grate, the thermocouple and the glass of the product

Should you wish to claim under the warranty,
please contact your dealer.
Please carefully retain your invoice with this warranty!

Your Bellfires dealer:

Date of installation:

Bellfires
Hallenstraat 17
NL-5531 AB Bladel
Tel. + 31 497 339200 Fax. + 31 497 339210

2 INSTRUCTIONS FOR USE

2.1 INTRODUCTION

Congratulations on your purchase of this modern Bellfires gas fire. This quality product will provide you with many years of enjoyment due to the flame effect and warmth that it provides. Please read the instructions for use carefully before using the appliance for the first time. Keep this booklet in a safe place.

2.2 BUILT-IN PROTECTION OF THE APPLIANCE

The appliance is fully protected by means of a thermo-electric pilot light shut off in the event of a gas escape from the main burner.

2.2.1 Safety

Do not place embers, vermiculite granules, wood logs or pebbles against the pilot light burner. Make sure that the pilot flame can burn at all times freely over the main burner. Only in this way is proper ignition of the main burner ensured.
Ignoring these directions could lead to a dangerous situation.

It is essential that the appliance, the complete concentric flue system and the outlet are cleaned and inspected annually by a recognised fitter/gas specialist. The safe operation of the appliance will thus remain guaranteed.
See for additional instructions Chapter 4: Maintenance.

If the pilot flame goes out for any reason, wait for 5 minutes before attempting to re-light it.

The gas fire must never be used with the door open or the door glass removed.

Never place flammable material on the ceramic log set.

The filling of the main burner with embers, vermiculite granules, wood logs or pebbles may not under any circumstances be changed or added to.

Do not place easily-flammable materials, such as nylon clothing or flammable liquids, in the vicinity of the gas fire.

Ensure at all times that children and other people who are not aware of the operation of the gas appliance are only in the vicinity of the appliance exclusively under supervision.

Use a fireguard to protect the people and children mentioned above against possible burns.

2.3 OPERATING YOUR GAS FIRE - GENERAL

Read these instructions carefully before lighting the fire !!

The gas fire can be operated with a pilot light that burns continuously. The ignition and control knob is located at the bottom of the front of your gas fire or outside the gas fire in a special box (supplied). If the control knob is fitted to the front of the gas fire, the gas fire frame must be removed to access the knob.

The pilot light is situated in the front of the burner, behind a cowl. *Should the pilot light go out, you must wait five (5) minutes before attempting to re-ignite the fire.*

Important
Once the fire is lit, it must burn at maximum for approx. 10 minutes to allow the chimney to come up to temperature.

2.4 HAND CONTROL

The burner is operated using the control knob. Select the required setting and the burner will then burn at this setting until it is changed.

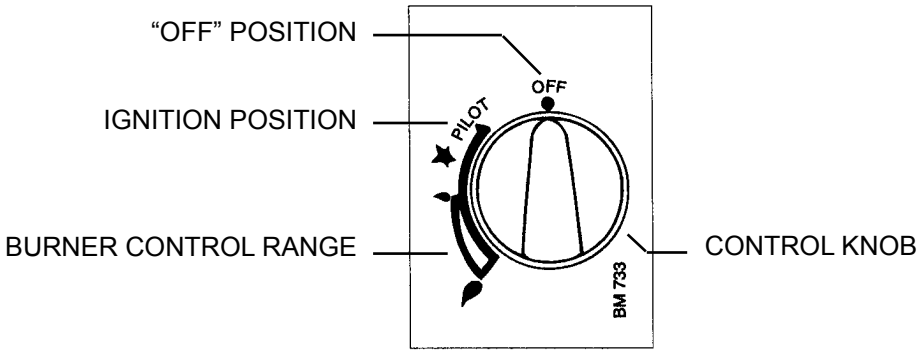


Figure 1: Gas regulator block BM 733

2.4.1 Igniting the fire

- Open the gas supply valve in the gas pipe to the appliance.
- Press in the control knob and turn it (clockwise) as far as possible. It is now in the “off” position.
- Press the control knob and turn it anti-clockwise to the “PILOT” ignition position. You will hear a click, which is the spark for the pilot light. You may have to “click” several times before the pilot light ignites.
- Once the pilot light is ignited, hold in the knob for another ten (10) seconds and then release it.

If the pilot flame goes out, then wait for at least 5 minutes before repeating the above procedure.

- The burner is ignited by turning the knob anti-clockwise to the desired setting.

Important:

- **When the main burner is switched on by turning the motor knob to the left, the burner must ignite within 10 seconds.**
  If this does not happen, immediately close the gas tap and warn the fitter.
- **If the main burner ignites with a pop; immediately close the gas tap and warn the fitter.**

2.4.2 Turning off the fire

Press the knob and turn it to “PILOT”.
The burner will continue to burn for a few seconds before being extinguished.

2.4.3 Extinguishing the pilot light

You can extinguish the pilot light by pressing the control knob when it is in the “PILOT” position and turning it clockwise to the “OFF” position.
If the gas fire is not going to be used for a long period of time, it is recommended to close the gas supply valve to the fire.

If the pilot flame goes out for any reason, wait for 5 minutes before attempting to re-light it.

If the pilot light frequently goes out, then please contact your installer.

2.5 REMOTE CONTROL

2.5.1 General

The appliance is opperated by radio remote control. This comprises a hand-held transmitter and a receiver. The receiver is part of the gas control block assembly.

The receiver and the gas control block are behind the (white) panel door (operating unit) next to the appliance. Press the door inwards to open; this will release the catch and the door will spring out. Or:

The receiver and the gas control block are behind the operating flap at the bottom of the appliance. Pull the flap forward to open.

The hand-held transmitter and receiver are powered by batteries.

Hand-held transmitter	:	1x 9V battery.
Receiver	:	4x 1.5V battery type LR6 or AA.
		Option: 6V adapter (230 VAC). Available from your fitter.

Note: Hand-held transmitter and receiver are **not** interchangeable with previous models.

2.5.2 Hand-held transmitter

The remote control works by radio signal. The hand-held transmitter is configured in the factory with a unique signal code.

Figure 2: Hand-held transmitter

Set the display

- Connect the batteries. By simultaneously pressing **OFF** and 🔥 (small flame), can be switched from °F (and 12 hour clock) to °C (and 24 hour clock), or vice versa.
- The display will automatically return to MAN mode after some time, but you may immediately return to MAN mode by pressing the **OFF** button.

Set the current time

- By simultaneously pressing 🔥 (large flame) and 🔥 (small flame), the display flashes. You are in **SET** mode.
- While the screen is flashing, you can adjust the time.
- Press 🔥 (large flame) to set the hour and 🔥 (small flame) to set the minute.
- Wait or press **OFF** to return to MAN mode.

Important: Setting up signal code before using the appliance for the first time.

Before the appliance can be used, the receiver must first learn the hand-held transmitter's signal code.

- Press the "**RESET**" button on the receiver, and keep this pressed until 2 audio signals are heard. See figure 3.
  Release the "**RESET**" button after the second (somewhat longer) audio signal.

- Press, within 20 seconds, the 🔥 (small flame) button on the hand-held transmitter, until a somewhat longer signal is heard. The signal code has now been set up on the receiver.

You only need to set up the signal code once. It is not necessary when changing the batteries of the hand-held transmitter or receiver.

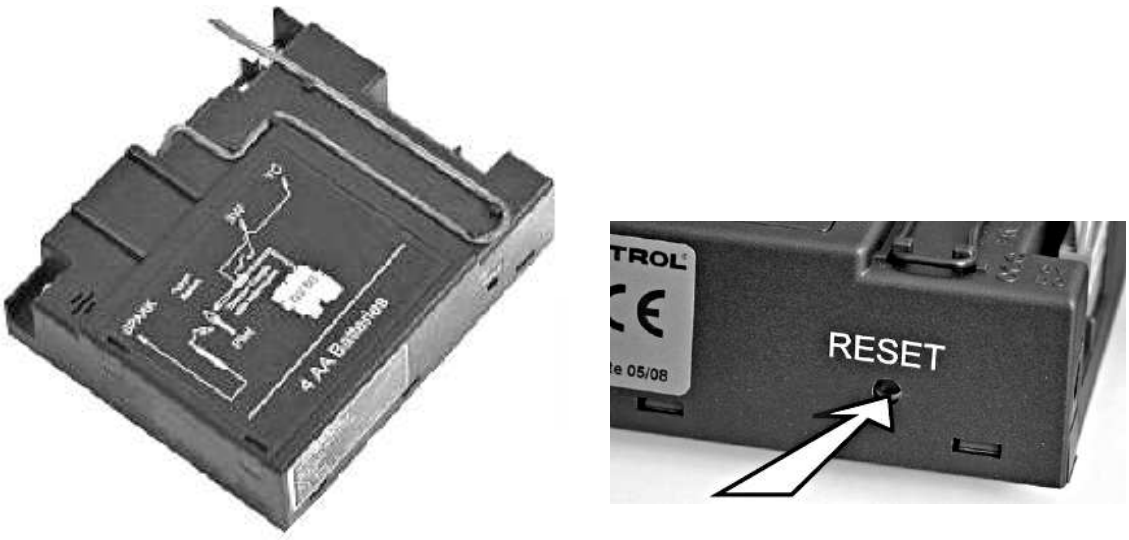


Figure 3: Receiver "RESET" button

Operating possibilities

It is possible to use the remote control in 3 ways to operate the appliance:

1 : MAN

2 : ☀ TEMP and ☽ TEMP

3 : TIMER

You can cycle through the menu with operating possibilities by repeatedly depressing the SET button.

MAN → ☀ TEMP → ☽ TEMP → TIMER → MAN

At TIMER the selected starting time (P1 ☀ or P2 ☀) or stopping time (P1 ☽ or P2 ☽) is also shown.

Returning to MAN is also possible by pressing the (small flame) or (large flame) button.

MAN **Manual operation**

Here you can turn the burner on and off, and adjust the height of the flames.

- Press (large flame) to turn on the burner and to increase the flame height.
- Press (small flame) decrease the flame height to turn the burner off. The pilot light will keep burning. (Stand-by position)
- The appliance will automatically revert to stand-by if:
  - the hand-held transmitter is outside the range of the receiver for more than 6 hours.
  - the batteries in the hand-held transmitter are almost depleted.
  - the batteries in the receiver are fully depleted.
- When one of the buttons on the hand-held transmitter is pressed (except the **SET** button), the transmission symbol appears on the screen. The receiver confirms the transmission with an audio signal.

☀ TEMP **Operating day temperature thermostat**

(Appliance is in the stand-by position and the pilot light is burning.)
Automatic temperature regulation of the pre-set day temperature.
The room temperature is measured and compared with the pre-set day temperature. The flame height is automatically regulated so as to reach the pre-set day temperature.
Also see: **Setting the desired temperature**.

☽ TEMP **Operating the night temperature thermostat**
(Appliance is in the stand-by position and the pilot light is burning.)
Automatic temperature regulation of the pre-set night temperature.
The room temperature is measured and compared with the pre-set night temperature. The flame height is automatically regulated so as to reach the pre-set night temperature.
Also see: **Setting the desired temperature**.

TIMER **Timer operation**
(Appliance is in the stand-by position and the pilot light is burning.)
Appliance functions automatically according to the two pre-set heating periods; P1 and P2. These heating periods repeat automatically every 24 hours.
Also see: **Programming the timer: P1 and P2.**

The appliance works thermostatically at the pre-set starting times P1 ☀ and P2 ☀ and the room temperature is automatically regulated to the pre-set day temperature ☀TEMP.

The appliance works thermostatically at the pre-set stopping times P1☽ and P2 ☽ and the room temperature is automatically regulated to the pre-set night temperature ☽ TEMP.
In order to allow the appliance to regulate the temperature at night, the night temperature ☽ TEMP must be set to at least 5°C.

If the ☽ TEMP setting is lowered to --, the appliance will switch to stand-by at night. The appliance will automatically operate at the following day cycle ☀TEMP .

N.B.: The pre-set temperature is shown on the screen every 30 seconds.

Setting the desired temperature

- Select the desired mode of operation ☀TEMP or ☽ TEMP by pressing the **SET** button briefly.
- Hold the **SET** button until the display flashes.
- Set the temperature with (large flame) or (small flame).
- Wait or press the **OFF** button briefly to go to MAN mode.
- If the temperature control in ☽ TEMP should be off (lower battery consumption), decrease ☽ TEMP the night temperature until -- appears on the display.

Important: **Place the hand-held transmitter in a place that is not influenced by direct sunlight, draught, heat from the appliance and other heat sources.**

Programming the timer: P1 and P2

- Select the desired mode of operation P1☀ by pressing the **SET** button briefly.
- Press the **SET** button until P1☀ (heating period 1) and the time flashes.
- Set the time for the beginning of the first heating period by pressing (large flame) for houre and (small flame) for minute'setting.
- Press the **SET** button briefly; P1☽ appears on the display. Set the time for the end of the first heating period.
- Press **SET** again to set the second heating period P2 ☀ (heat **ON**) and P2☽ (heat **OFF**).
- Wait a moment or press **OFF** to switch back to MAN mode.

2.5.3 Operation (Remote Control)

Igniting the fire

- Open the gas supply valve in the gas pipe to the fire.
- Press the "**O I**" switch on the gas control block to the "**I**" position.
- Turn the operating knob on the gas control block to the **ON** position.
- Switch the hand-held transmitter to the MAN position.
- On the hand-held transmitter, press the ★**- OFF** and (large flame) buttons simultaneously. A short tone will signal the start. Short beeps will then follow until the pilot light and main burner are ignited. Once the main burner has been ignited, the flame height will automatically rise to the maximum position.

Important:

- **If the pilot flame goes out for any reason, wait for 5 minutes before attempting to re-light it.**
- **If the pilot light does not ignite after 3 ignition attempts; close the gas tap and warn the fitter.**
- **Once the pilot light is burning, the main burner must ignite within 10 seconds automatically.**
  If this does not happen, immediately close the gas tap and warn the fitter.
- **If the main burner ignites with a pop; immediately close the gas tap and warn the fitter.**

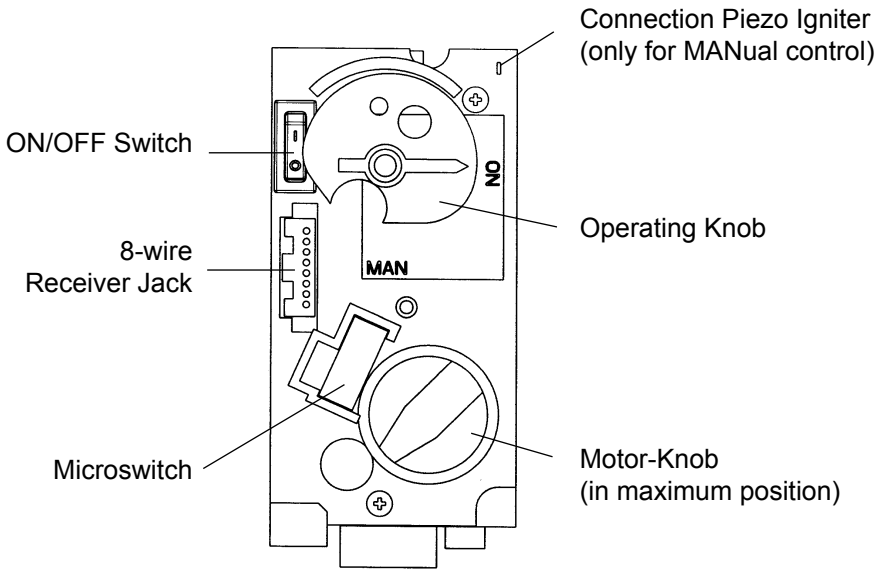


Figure 4: Gas regulating block; Operating Knob in ON-position

- Possible error messages:
  * 3x short audio signal, audible when the motor-knob operates:
    Receiver batteries need changing soon (having heard this signal, the appliance can be ignited another ten times approximately).
  * 5 second unbroken tone:
    Error. For example, one of the cables may not be properly connected, the "**O I**" switch is not in the "**I**" position.
  * 5 short beeps:
    Ignition of the pilot light and main burner failed. Possible cause: air in the pilot light pipe.

Important: **If the pilot flame goes out, then wait for at least 5 minutes before repeating the above procedure.**

Setting the flame height / extinguishing the fire

- After ignition, the burner automatically sets the flames to the maximum height.
- Press button (small flame) to lower the flames and to turn off the main burner (Extinguishing the fire: small flame button: pilot light remains burning!) (Pressing briefly the (small flame) button gradually lowers the flames to the low position.)
- Press button (large flame) to increase the flame level and to turn on the burner. (Pressing briefly the (large flame) button gradually increases the flames to the high position.)

Important:

- **If you turn on the main burner by pressing the 🔥 (large flame) button, it must ignite <u>within 10 seconds</u>.**
  If this does not happen, <u>immediately</u> close the gas tap and warn the fitter.
- **If the main burner ignites with a pop; <u>immediately</u> close the gas tap and warn the fitter.**

<u>Switching off the appliance</u>

- Press the 🔥 (small flame) button to lower the flames or to switch off the main burner.
- Then press the ★**-OFF** button to switch off the appliance, including the pilot light.
- Press the "**O I**" switch (on the gas control block) to the "**O**" position. This conserves battery life.
- If the appliance is not to be used for some time, please close the gas supply valve in the gas pipe.

Important:

If the pilot flame goes out for any reason, wait for <u>5 minutes</u> before attempting to re-light it.

<u>Faults</u>

- If the signals from the hand-held transmitter do not seem to be reaching the receiver, the cause may be:
  * Spent batteries: replace the batteries.
  * An electronic problem: press the "**RESET**" button on the receiver.
- If the appliance regularly switches itself off, please contact your installer.

<u>Replacing the batteries</u>

- The hand-held transmitter/receiver batteries have a service life of approx. one year. We recommend you use alkaline batteries.

- The batteries must be replaced whenever:
  1 Hand-held transmitter: BATT appears in the display screen.
  2 Receiver: 3x short audio signal, audible when the motor-knob operates.

  1 Hand-held transmitter:
  * Open the cover on the back of the transmitter.
  * Carefully remove the 9V battery and disconnect it from the contact. Do not pull the wires!
  * Connect the new battery and replace in the battery compartment. Close the cover.

2 Receiver:
* Carefully pull the receiver assembly out of the compartment behind the (white) panel door.
* Open the cover.
* Remove the batteries from the battery compartment.
* Place four new 1.5V batteries (LR6 or AA type) as indicated in the battery compartment. The negative end (-) of the battery must always be at the contact spring end of the compartment.
* Close the cover and place the receiver back in its holder.

- If the batteries are inserted incorrectly, the electronics or drive may be irreparably damaged.

- Only replace the batteries when the appliance has been completely switched off.

2.5.4 Operation (Hand control)

In an emergency it is possible to operate the appliance manually. To do so, the ignition (piezo) cable must first be removed and transferred carefully to the piezo connector on the gas control block.

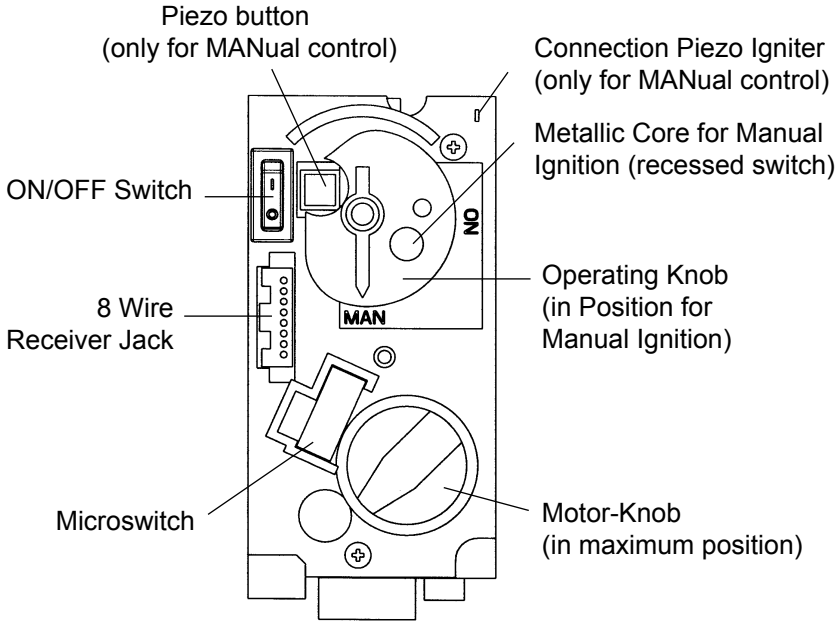


Figure 5: Gas regulating block; Operating Knob in MAN-position

Igniting the fire

- Open the gas supply valve in the gas pipe to the fire.
- Switch the "**O I**" switch on the gas regulating block to the "**I**" position.
- Turn the motor-knob on the gas regulating block as far as it will go in a clockwise direction. The switch will audibly 'click'.
- Turn the operating knob on the gas control block to the **MAN** position. A recessed switch within the knob will become visible.
- Press the recessed switch. Use a pen or similar instrument to do this. Gas will now flow to the pilot light.
- While holding down the recessed switch, press the (square) piezo button several times (the piezo button is alongside the "**O I**" switch) to ignite the pilot light. Check whether the pilot light has been lit through the glass.
- Once the pilot light is lit, the recessed switch must be kept down for a further ten seconds, after which it can be released.

Important: **If the pilot flame goes out, then wait for at least 5 minutes before repeating the above procedure.**

- Move the operating knob to the **ON** position. Depending on the position of the motor-knob, the burner will either ignite or not.
- By turning the motor-knob anti-clockwise to the desired position, the burner will ignite and the flame height can be controlled.

Important:

- **When the main burner is switched on by turning the motor knob to the left, the burner must ignite within 10 seconds. If this does not happen, immediately close the gas tap and warn the fitter.**
- **If the main burner ignites with a pop; immediately close the gas tap and warn the fitter.**

Extinguishing the fire

- Turn the motor-knob on the gas regulating block as far as it will go in a clockwise direction. The knob will audibly 'click'. The burner is now switched off. The pilot light will remain lit.

Switching off the appliance

- Press the "**O I**" switch on the gas regulating block to the "**O**" position. The pilot light will be extinguished.
- If the gas fire is not going to be used for a long period of time, it is recommended to close the gas supply valve to the fire.

Important: **If the pilot flame goes out for any reason, wait for 5 minutes before attempting to re-light it.**

2.6 USING THE APPLIANCE FOR THE FIRST TIME

The gas fire is coated with a lacquer layer resistant to high temperature. During the first hours of operation, the burning in of the lacquer may result in an unpleasant smell. This is harmless, however. Operating the gas fire at full capacity for a few hours, while ventilating the room, will eliminate the smell.
After using your gas fire for the first few times, you may be aware of a light deposit on the inside off the glass. This is caused by the paint curing. Once your fireplace has cooled down, this deposit can be removed with glass cleaner or ceramic hob cleaner.

2.7 DAILY MAINTENANCE

- Ensure that as little dust, and as few particles of cigarette smoke, candles and oil lamps as possible pollute the air in the room in which the appliance is used. Heating of these particles by the convection system of the appliance could lead to discoloration of the walls and ceiling. It is therefore very important to ensure that the room in which the appliance is located is sufficiently ventilated. Regularly remove any dust deposits from behind the control flap by means of a vacuum cleaner.

Important:

- **If the glass is broken or cracked, it must be immediately replaced before operating the gas fire again.**
- **If the appliance has two or more glasss, regularly check whether the glass panes fit firmly together. Gaps between the glass panes can lead to the leakage of flue gasses into the living room!**

- If anything is spilt on the fire, switch it off immediately and wait for it to cool down sufficiently before cleaning. Never use scouring powder, aggressive cleaners or fire polish on the gas fire. Use only a dry lint free cloth.
- Heat resistant lacquer in aerosols can be obtained from your distributor. During the yearly maintenance, the lacquer can be used to repair small areas of damage.

IMPORTANT

The installation must only be carried out by a "Gas Safe Register" registered installation engineer.

3 INSTALLATION INSTRUCTIONS

3.1 GENERAL

The gas fire must be positioned and connected as a “room sealed system” (balance flue) appliance by a “Gas Safe Register” registered gas installation engineer in accordance with the following installation instructions, nationally and locally applicable regulations (see “Technical Details/ Regulations” at the rear of this manual). If you have any queries regarding the installation, please consult your local gas company.

Important: **Before beginning the installation, check that the details on the rating plate correspond to the gas type and pressure to which the appliance will be connected.**

The appliance is factory set to the correct nominal heat input. The pilot light is set to the correct level of consumption.

It is possible to install the gas fire with either a wall or roof outlet.

The roof connection must be carried out using the Barbas concentric flue system Ø100 mm - Ø150 mm. The fumes are exhausted naturally to the outside environment through the inner Ø100 mm pipe whereas the combustion air supply passes between the Ø100 mm and Ø150 mm pipes.

The wall connection must be carried out using the Barbas concentric flue system Ø130 mm - Ø200 mm. The flue gases are evacuated outside by means of natural draft through the internal pipe of Ø130 mm, whereas the combustion air is supplied between the pipes of Ø130 mm and Ø200 mm.
The wall outlet itself is, depending on the concentric flue gas system configuration, Ø100 mm - Ø150 mm or Ø130 mm - Ø200 mm.

The gas fire can be installed in a completely sealed or mechanically ventilated house without extra ventilation and/or fume extraction.

The gas fire can be installed as an **insertion** into an existing open fire place or as a **built-in** appliance in a new fire place.

In order to prevent the fireplace heating up excessively, it must be properly ventilated by installing vents at the top and bottom of the fireplace.

The appliance can be fitted with a convection package as an optional extra. This is a “convection jacket” for around (or above) the appliance, two flexible aluminium pipes and two built-in convection vents. This enables hot air to be circulated into the room.

When handling a stainless steel or copper color frame, we advise you to use the special gloves supplied, and to leave them with the owner of the hearth after installation.

If an existing chimney is to be used, please consult your installer first. If the chimney was previously used for a wood or coal fire, then it should be cleaned by an expert.

3.2 BARBAS CONCENTRIC FLUE SYSTEM Ø100 MM - Ø150 MM AND Ø130 MM - Ø200 MM

The gas fire, in combination with the Barbas concentric flue system [Ø100 mm - Ø150 mm] and/or [Ø130 mm - Ø200 mm] (rigid and/or flexible) has been approved in accordance with the European CE-norm for gas appliances and may therefore be used only with this system. The guarantee is invalidated if the appliance is (completely or partially) installed using a different system.
The Barbas concentric flue [Ø100 mm - Ø150 mm] and [Ø130 mm - Ø200 mm] systems can be used with either a newly-built or existing chimney.

3.3 PREPARATION FOR INSTALLATION

The following preparation must be carried out before the gas fire can be installed.

3.3.1 Instructions for positioning the outlet

3.3.1.1 Positioning the outlet for correct operation:

Roof-mounted outlet:

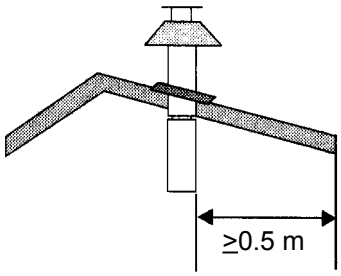


Figure 6: Roof-mounted outlet

This must be positioned at least 0.5 m from the roof edge;
the apex of the roof can be disregarded.

Wall-mounted outlet:

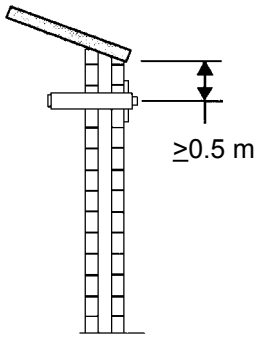


Figure 7: Wall-mounted outlet

This must be positioned at least 0.5 m from:
- the corner of the building.
- the roof overhang, the rain gutter.
- balconies etc., unless the exhaust construction extends to at least the face of the protruding section.

3.3.1.2. Positioning the outlet to avoid affecting the surrounding area

All listed “distances” in this section are no more than guidelines.
For the exact minimum “distances”, please consult your national and local directives.

“Distance” = minimum distance required for positioning of the outlet to avoid adverse effects with respect to:

A. A ventilation opening serving an occupied room, a toilet or a bathroom.

B. A heating air supply, when the supply flows through an occupied room.

C. A glass that can be opened and that is near an occupied room, a toilet or a bathroom.

Roof-mounted outlet:

To avoid adverse effects	Distance: outlet - A, B or C
At the same roof level.	>3 m (*)
At a different roof level.	>1 m (*)
At a lower positioned wall.	>1 m
At a higher sloping surface.	>3 m (**)

(*) If the required distance cannot be achieved, the outlet position rules take precedence.

(**) If the required distance cannot be achieved, the position of the outlet must be at least 1 m above the highest facade/roof.

Wall-mounted outlet:

To avoid adverse effects	Distance: outlet - A, B or C
At walls in buildings with staggered heights.	Not permitted if A, B, or C are located above the outlet.
On a wall - general. (*)	Above the outlet: >2 m Below the outlet: >0.75 m Left and right of the outlet: >0.75 m
At <1 m from the roof overhang.	>2 m
Beneath balconies, walkways etc.	>2 m from the underside of the protruding balcony or walkway.
Beneath balconies, walkways etc. where the outlet extends to the front.	>2 m
To the garden or on the terrace.	>2 m to the outside space. (**)
With respect to a facing wall.	>2 m (if the distance from the facing wall is less, the criteria detailed for “On a wall - general” apply).
Enquire at your local gas company for the regulations relating to outlets positioned opposite each other and outlet(s) in facade(s) that form an angle.	

(*) These minimum distances do not apply if there is an obstruction between the outlet and A, B and C that protrudes at least 0.5 m from the wall and has a length exceeding the distance.

(**) This distance is not required if the outlet is situated at least 1 m higher than the intended area of the outside space.

If the outlet has a clearance of less than 0.5 m from the hard surface of a public area at a height of less than 2 m, it must be fitted with an effective protector. The mesh size of the guard must not affect the correct operation of the appliance.

3.4 GENERAL SERVICES

3.4.1 The Fume Channel/Combustion Air Intake

The combined fume channel and combustion air intake requires one of the following Barbas concentric flue system configurations.

Important:

Due to the high temperature of the outer walls (approx. 150°C), no flammable materials may be located or used in the vicinity of the flue system.
The complete flue system, must therefore be sleeved with a heat resistant material after assembly.

Ventilate the covered concentric flue by fitting a grid near the floor and ceiling (on each floor).

Do not insulate the concentric flue.

Use the universal wall/floor support Ø150 mm to attach the covering of the concentric flue system [Ø100 mm - Ø150 mm], see 3.4.2, drawing number 36.

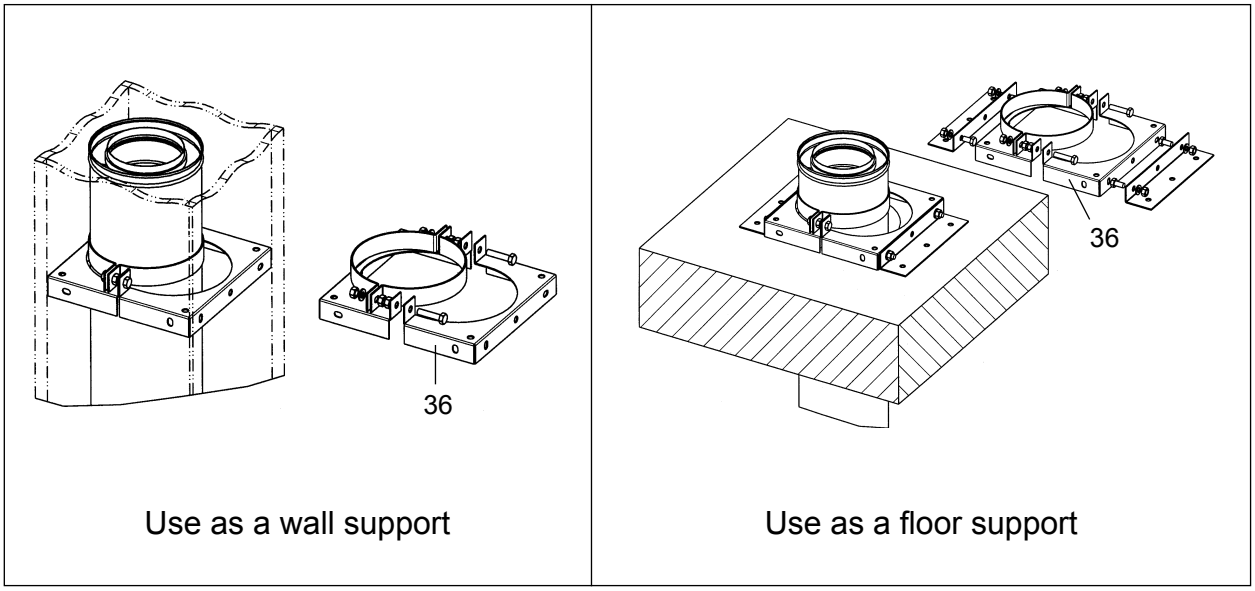
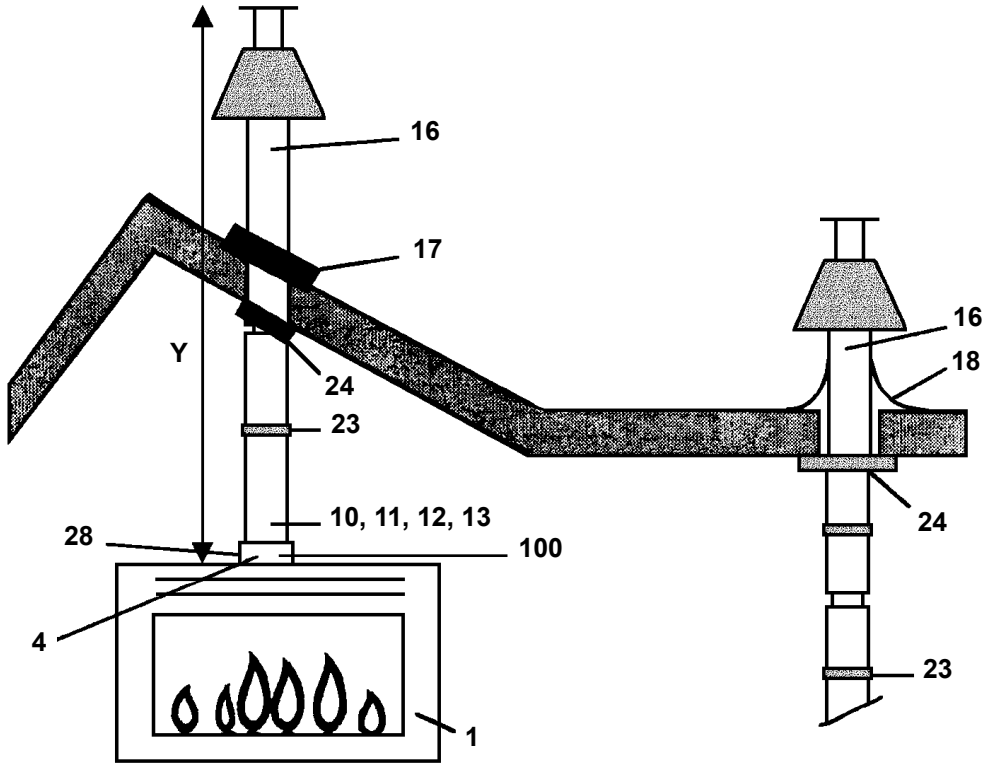


Figure 8: Application universal wall/floor support Ø150 mm

BARBAS RIGID CONCENTRIC FLUE Ø100 mm - Ø150 mm SYSTEM CONNECTION POSSIBILITIES

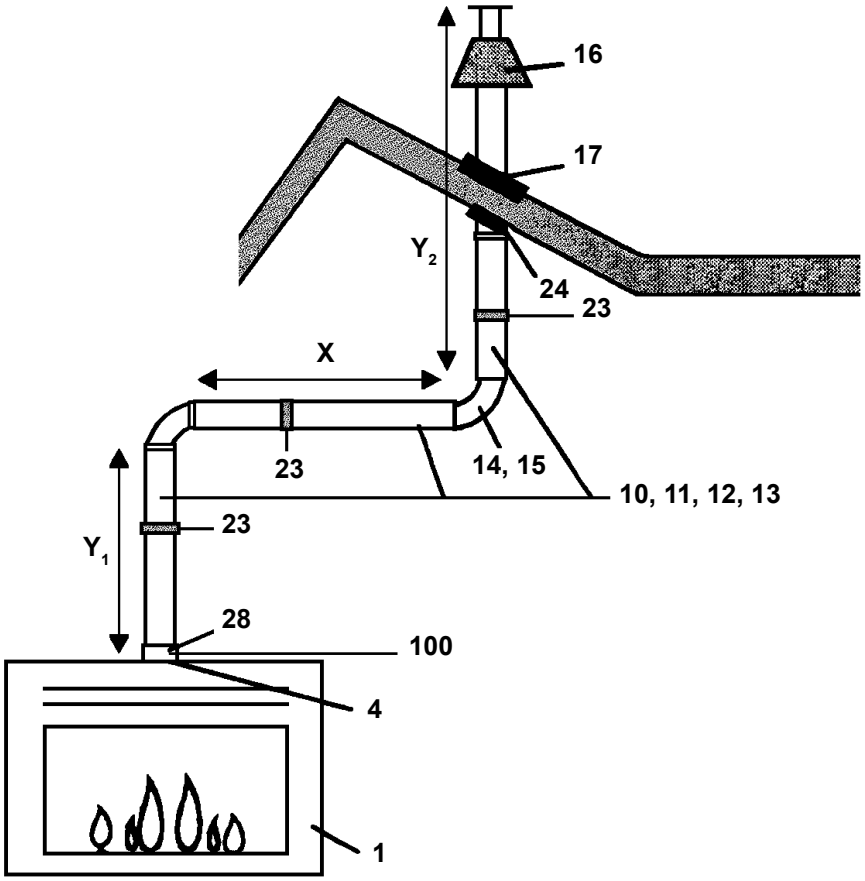


Item descriptions:
see 3.4.2

Appliance:		Distance Y (min.-max.)		Assemble restriction plate
Horizon Bell XXL Horizon Bell XL Horizon Bell Large Horizon Bell Large Tunnel Corner Bell Large L/R		2.0 - 4.0 m		Width: B = 65 mm
Corner Bell Medium L/R View Bell Large View Bell Medium View Bell Room Divider Large View Bell Room Divider Medium		4.0 - 12.0 m		Width: B = 80 mm

Figure 9: Vertical roof-mounted outlet without bend

ALL SIZES INCLUDE THE LENGTH OF THE ROOF OR WALL TERMINATION



Item descriptions:
see 3.4.2

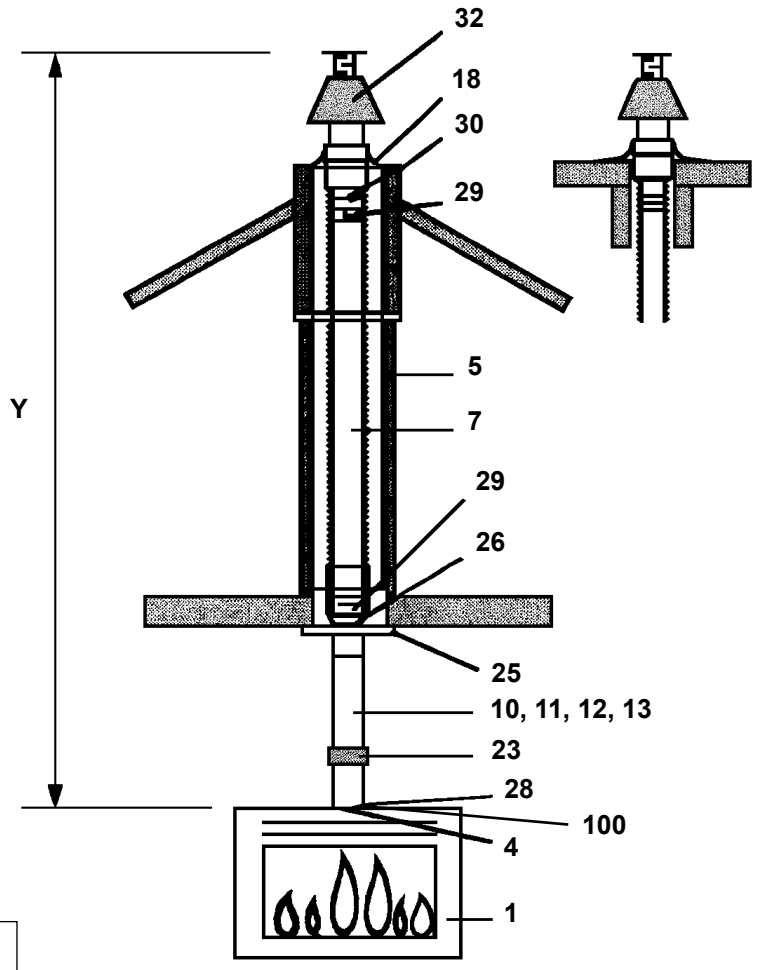
Appliance:	**Distance Y_1 (*) (min.-max.)**	**Distance X (*) (min.-max.)**	**Distance $Y_1 + Y_2$ (*) (min.-max.)**	**Assemble restriction plate**
Horizon Bell XXL Horizon Bell XL Horizon Bell Large Horizon Bell Large Tunnel Corner Bell Large L/R Corner Bell Medium L/R View Bell Large View Bell Medium View Bell Room Divider Large View Bell Room Divider Medium	1.0 - 11.0 m	0 - 3.0 m	1.0 - 11.0 m	Width: B=40 mm

(*) : $(Y_1 + Y_2) : X \geq 2 : 1$
(Vertical to horizontal ratio (or 45° upwards) is always at least 2 to 1)

Figure 10: Vertical roof-mounted outlet with bend

ALL SIZES INCLUDE THE LENGTH OF THE ROOF OR WALL TERMINATION

FLEXIBLE CONCENTRIC FLUE Ø100 mm - Ø150 mm SYSTEM CONNECTION POSSIBILITIES

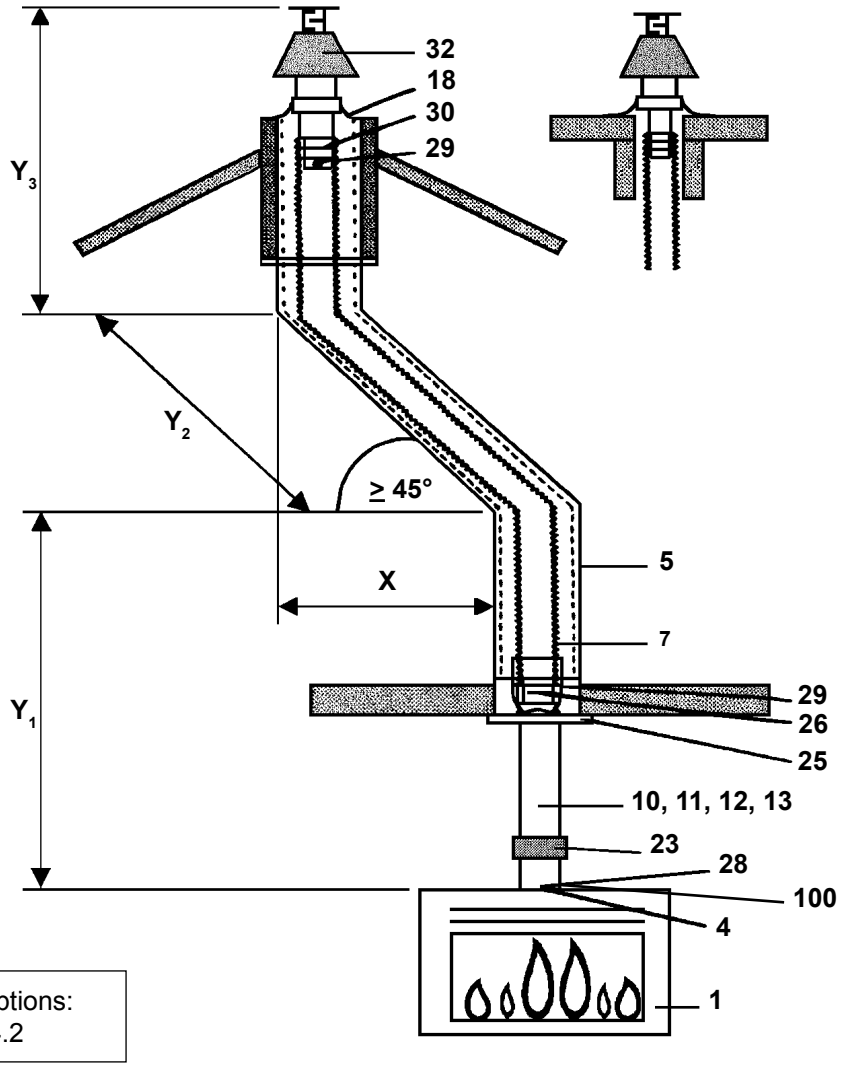


Item descriptions:
see 3.4.2

Appliance:		Distance Y (min.-max.)		Assemble restriction plate
Horizon Bell XXL Horizon Bell XL Horizon Bell Large Horizon Bell Large Tunnel Corner Bell Large L/R Corner Bell Medium L/R		2.0 - 4.0 m		Width: B = 65 mm
View Bell Large View Bell Medium View Bell Room Divider Large View Bell Room Divider Medium		4.0 - 12.0 m		Width: B = 80 mm

Figure 11: Vertical chimney outlet using an existing lined chimney
(Flexible Ø100 mm and/or rigid Ø100 mm / Ø150 mm)

ALL SIZES INCLUDE THE LENGTH OF THE ROOF OR WALL TERMINATION



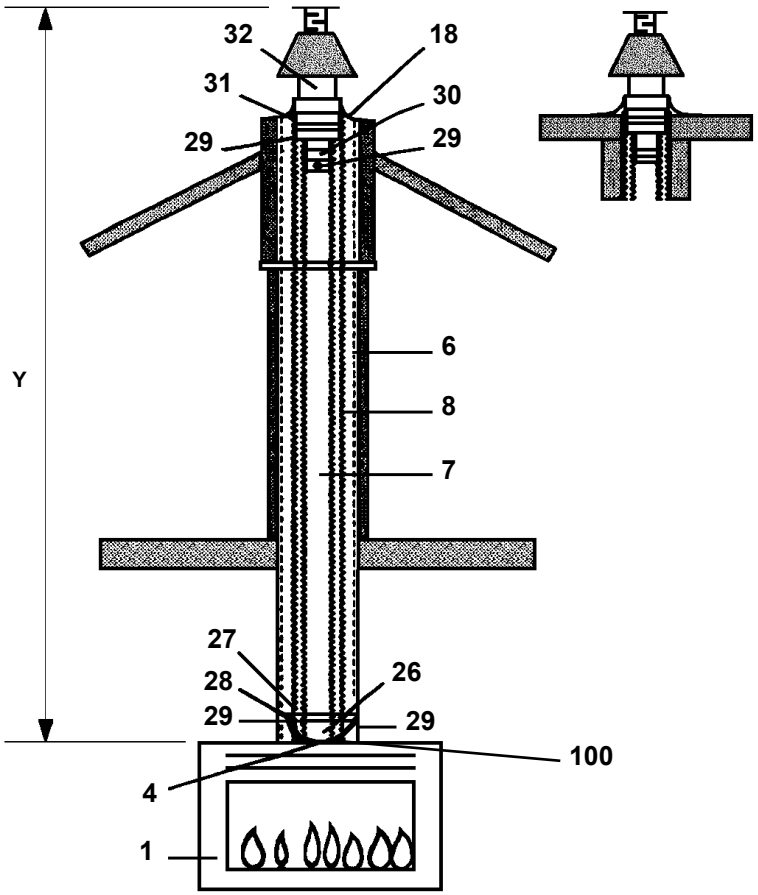
Item descriptions:
see 3.4.2

Appliance:	**Distance Y_1 (*) (min.-max.)**	**Distance X (*) (min.-max.)**	**Distance $Y_1 + Y_2 + Y_3$ (*) (min.-max.)**	**Assemble restriction plate**
Horizon Bell XXL Horizon Bell XL Horizon Bell Large Horizon Bell Large Tunnel Corner Bell Large L/R Corner Bell Medium L/R View Bell Large View Bell Medium View Bell Room Divider Large View Bell Room Divider Medium	1.0 - 11.0 m	0 - 3.0 m	1.0 - 11.0 m	Width: B=40 mm

(*) : $(Y_1 + Y_2 + Y_3) : X \geq 2 : 1$
(Vertical to horizontal ratio (or 45° upwards) is always at least 2 to 1)

Figure 12: Vertical chimney outlet using a lined chimney with a bend ≥ 45°
(Flexible Ø100 mm and/or rigid Ø100 mm / Ø150 mm)

ALL SIZES INCLUDE THE LENGTH OF THE ROOF OR WALL TERMINATION

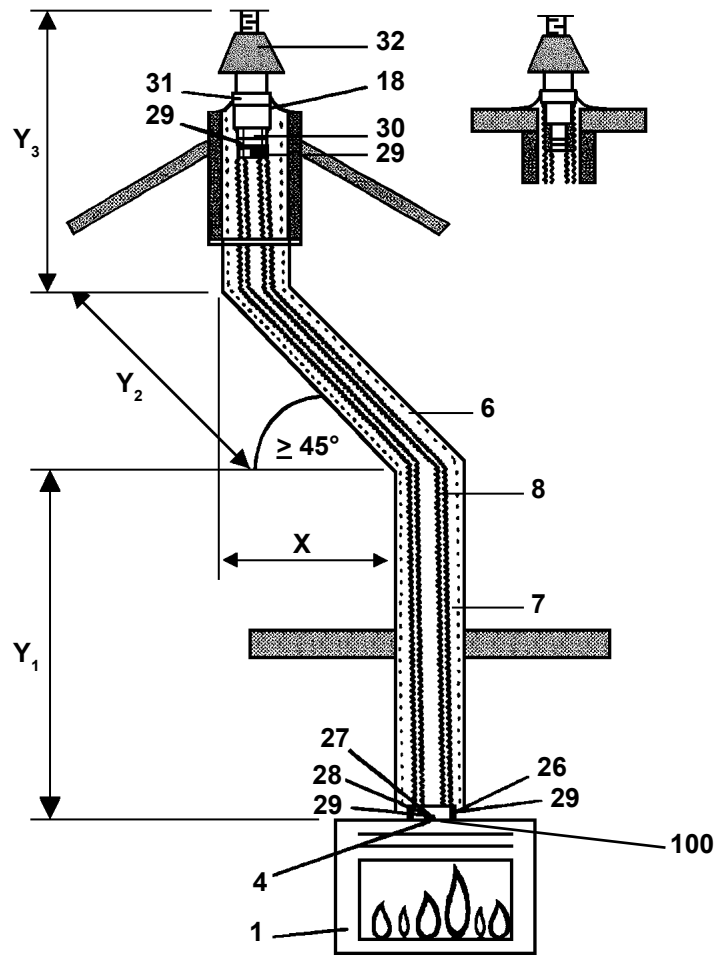


Item descriptions:
see 3.4.2

Appliance:		Distance Y (min.-max.)		Assemble restriction plate
Horizon Bell XXL Horizon Bell XL Horizon Bell Large Horizon Bell Large Tunnel Corner Bell Large L/R Corner Bell Medium L/R		2.0 - 4.0 m		Width: B = 65 mm
View Bell Large View Bell Medium View Bell Room Divider Large View Bell Room Divider Medium		4.0 - 12.0 m		Width: B = 80 mm

Figure 13: Vertical chimney outlet using an existing unsound lined chimney or when no chimney liners are present
(Flexible Ø100 mm / Ø150 mm)

ALL SIZES INCLUDE THE LENGTH OF THE ROOF OR WALL TERMINATION



Item descriptions:
see 3.4.2

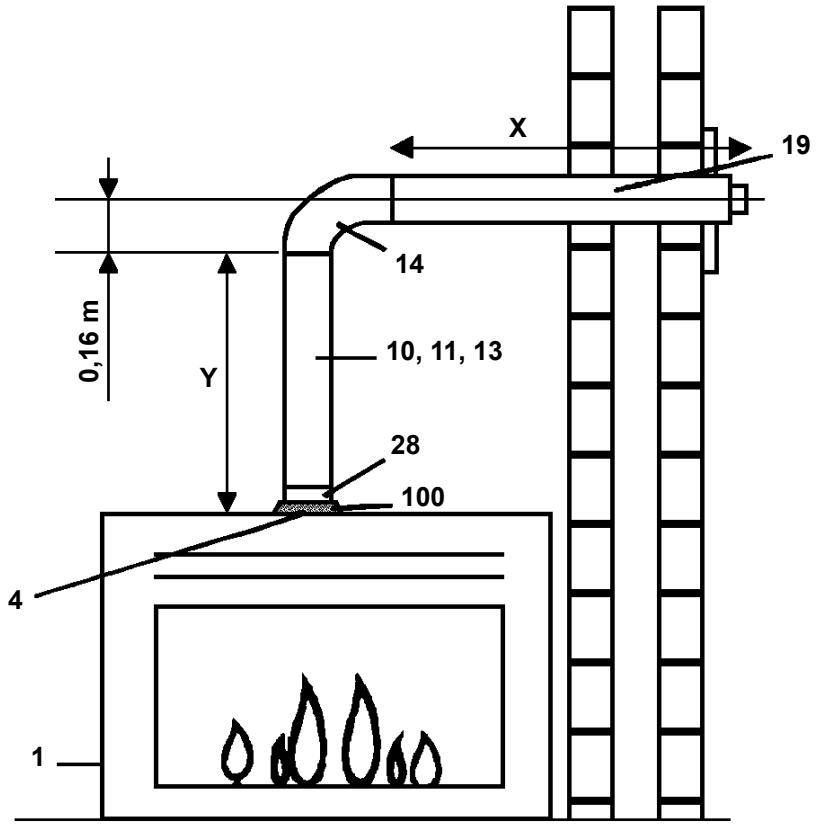
Appliance:	**Distance Y_1 (*) (min.-max.)**	**Distance X (*) (min.-max.)**	**Distance $Y_1 + Y_2 + Y_3$ (*) (min.-max.)**	**Assemble restriction plate**
Horizon Bell XXL Horizon Bell XL Horizon Bell Large Horizon Bell Large Tunnel Corner Bell Large L/R Corner Bell Medium L/R View Bell Large View Bell Medium View Bell Room Divider Large View Bell Room Divider Medium	1.0 - 11.0 m	0 - 3.0 m	1.0 - 11.0 m	Width: B=40 mm

(*) : $(Y_1 + Y_2 + Y_3) : X \geq 2 : 1$
(Vertical to horizontal ratio (or 45° upwards) is always at least 2 to 1)

Figure 14: Vertical chimney outlet using an existing unsound lined chimney or when the chimney is unlined; with a bend ≥45°
(Flexible Ø100 mm / Ø150 mm)

ALL SIZES INCLUDE THE LENGTH OF THE ROOF OR WALL TERMINATION

BARBAS RIGID CONCENTRIC FLUE Ø100 mm - Ø150 mm SYSTEM CONNECTION POSSIBILITIES and with wall outlet Ø100 mm - Ø150 mm



Wall Termination Position

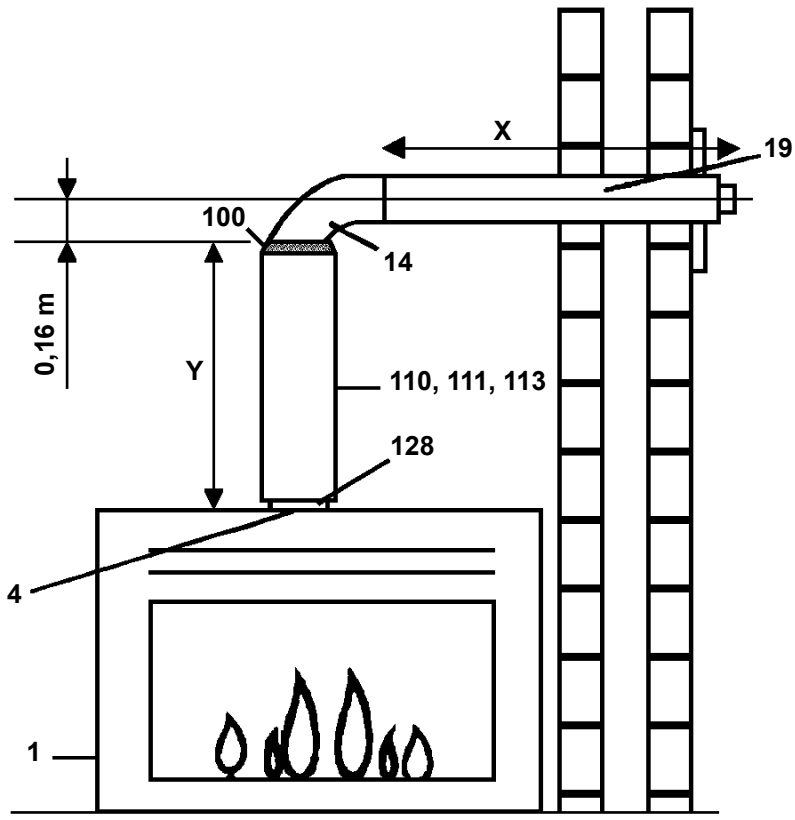
Item descriptions: see 3.4.2

Appliance:	**Distance Y (min.-max.)**	**Distance X (min.-max.)**		**Assemble restriction plate**
Horizon Bell Large Horizon Bell Large Tunnel Corner Bell Large L/R	2.0 - 3.0 m	0 - 0.6 m		-
Corner Bell Medium L/R View Bell Large View Bell Medium	3.0 - 4.0 m	0 - 1.6 m		-
View Bell Room Divider Large View Bell Room Divider Medium	3.0 - 4.0 m	0 - 1.6 m		-

Figure 15: Horizontal wall termination

ALL SIZES INCLUDE THE LENGTH OF THE ROOF OR WALL TERMINATION

BARBAS RIGID CONCENTRIC FLUE Ø130 mm - Ø200 mm SYSTEM CONNECTION POSSIBILITIES and with wall outlet Ø100 mm - Ø150 mm



Wall Termination Position

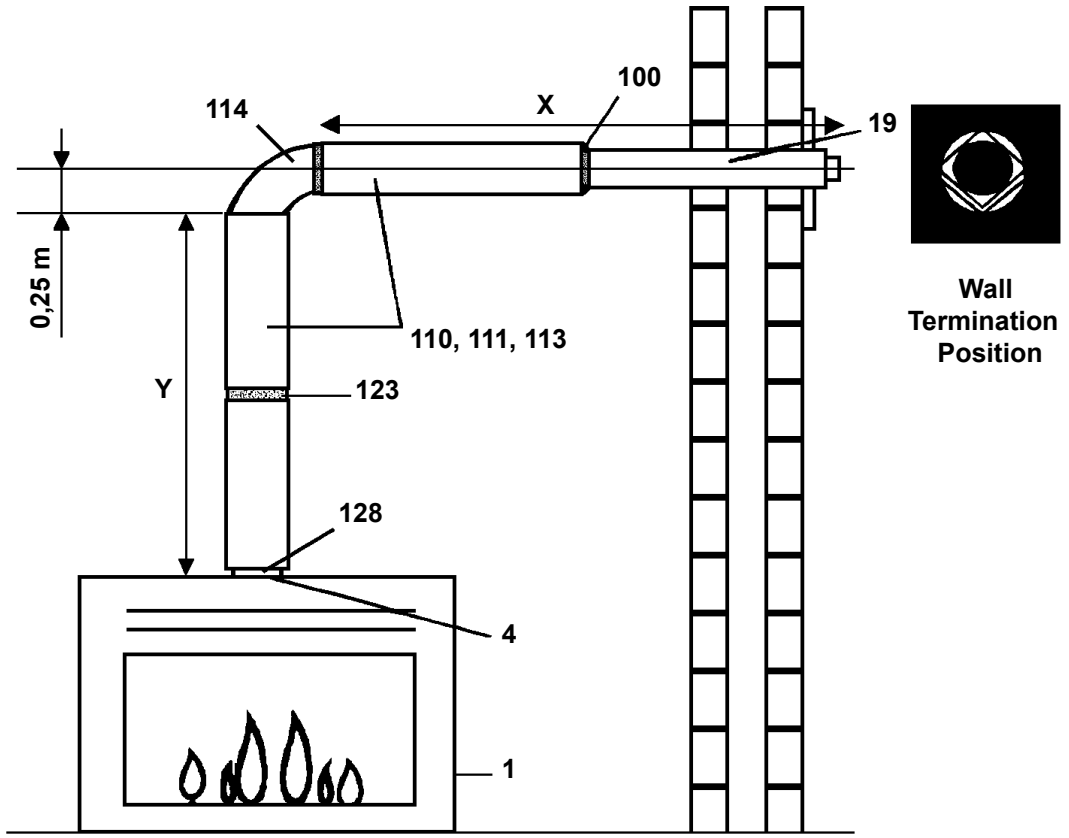
Item descriptions: see 3.4.2

Appliance:	**Distance Y (min.-max.)**	**Distance X (min.-max.)**		**Assemble restriction plate**
Horizon Bell Large Horizon Bell Large Tunnel Corner Bell Large L/R Corner Bell Medium L/R View Bell Large View Bell Medium View Bell Room Divider Medium	1.0 - 2.0 m	0 - 0.6 m		-
View Bell Room Divider Large	1.0 - 2.0 m	0 - 1.1 m		-

Figure 16: Horizontal wall termination

ALL SIZES INCLUDE THE LENGTH OF THE ROOF OR WALL TERMINATION

BARBAS RIGID CONCENTRIC FLUE Ø130 mm - Ø200 mm SYSTEM CONNECTION POSSIBILITIES and with wall outlet Ø100 mm - Ø150 mm



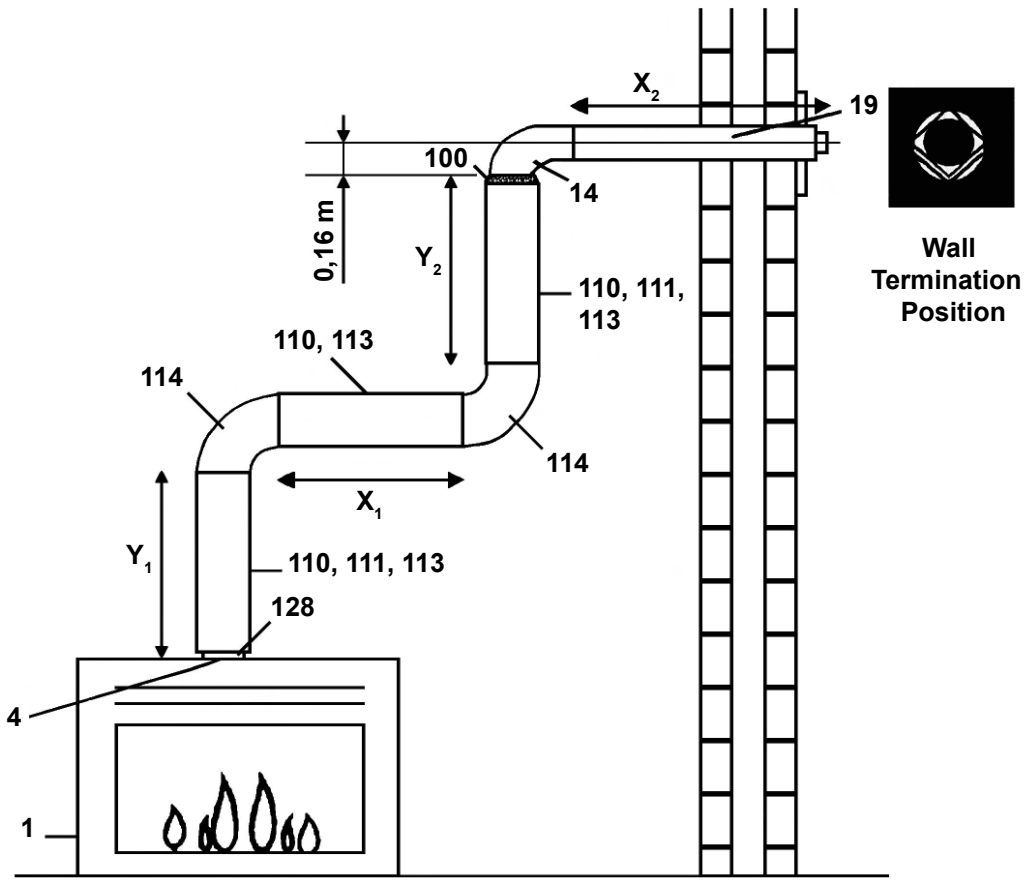
Item descriptions:
see 3.4.2

Appliance:	Distance Y (min.-max.)	Distance X (min.-max.)		Assemble restriction plate
Horizon Bell Large Horizon Bell Large Tunnel Corner Bell Large L/R View Bell Large View Bell Room Divider Large	1.0 - 3.0 m	0 - 4.6 m		-
Corner Bell Medium L/R View Bell Medium View Bell Room Divider Medium	1.0 - 3.0 m	0 - 8.6 m		-

Figure 17: Horizontal wall termination

ALL SIZES INCLUDE THE LENGTH OF THE ROOF OR WALL TERMINATION

BARBAS RIGID CONCENTRIC FLUE Ø130 mm - Ø200 mm SYSTEM CONNECTION POSSIBILITIES and with wall outlet Ø100 mm - Ø150 mm



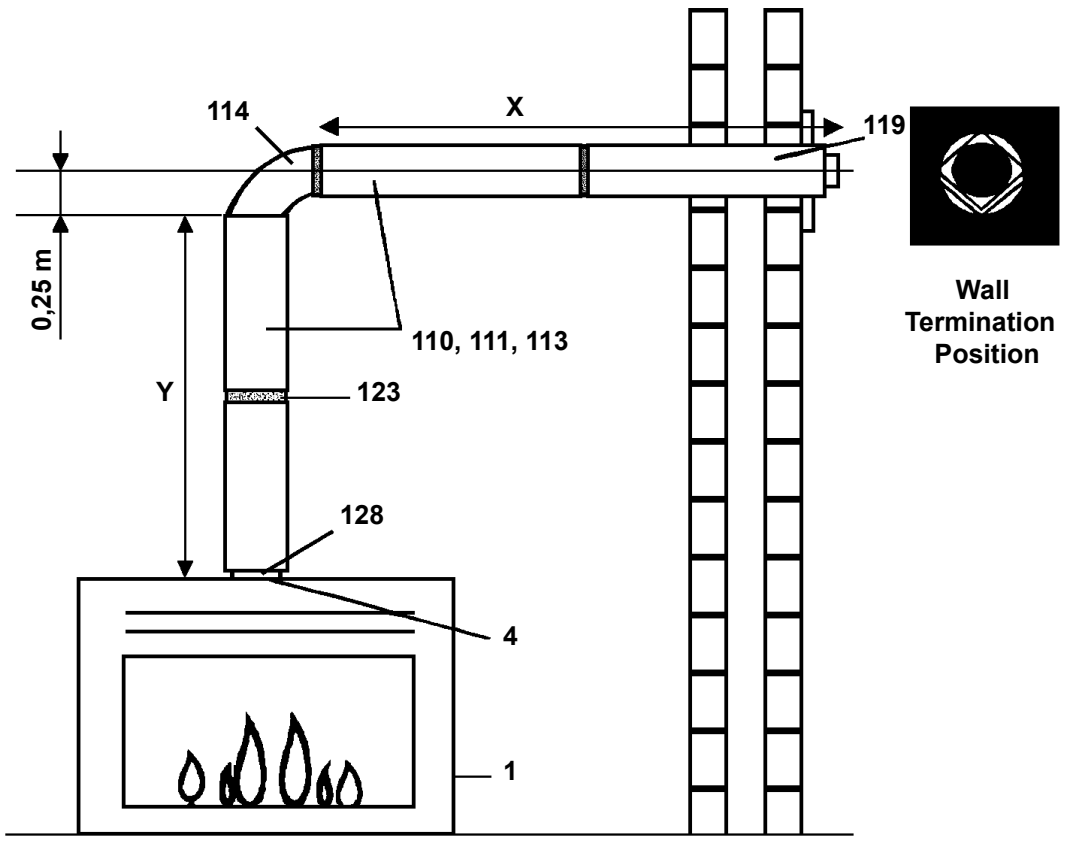
Item descriptions: see 3.4.2

Appliance:	Distance Y_1 (min.-max.)	Distance X_1 (min.-max.)	Distance Y_2 (min.-max.)	Distance X_2 (min.-max.)	Assemble restriction plate
Corner Bell Medium L/R	0 - 0.5 m	0 - 0.5 m	0.5 - 1.0 m	0 - 0.6 m	-
View Bell Medium	0.5 - 1.0 m	0 - 0.5 m	0 - 0.5 m	0 - 0.6 m	-
View Bell Room Divider Medium	1.0 - 3.0 m	0 - 1.0 m	0.5 - 2.0 m	0 - 0.6 m	-
	1.0 - 3.0 m	0 - 3.0 m	1.0 - 3.0 m	0 - 0.6 m	-

Figure 18: Horizontal wall termination

ALL SIZES INCLUDE THE LENGTH OF THE ROOF OR WALL TERMINATION

BARBAS RIGID CONCENTRIC FLUE Ø130 mm - Ø200 mm SYSTEM CONNECTION POSSIBILITIES and with wall outlet Ø130 mm - Ø200 mm



Item descriptions:
see 3.4.2

Appliance:	Distance Y (min.-max.)	Distance X (min.-max.)		Assemble restriction plate
Horizon Bell XXL Horizon Bell XL Horizon Bell Large	0.5 - 1.0 m	0 - 2.6 m		-
Horizon Bell Large Tunnel Corner Bell Large L/R Corner Bell Medium L/R View Bell Large View Bell Medium	1.0 - 3.0 m	0 - 3.6 m		Width: B = 40 mm
View Bell Room Divider Large View Bell Room Divider Medium	1.0 - 3.0 m	3.6 - 8.6 m		-

Figure 19: Horizontal wall termination

ALL SIZES INCLUDE THE LENGTH OF THE ROOF OR WALL TERMINATION

3.4.2 Item descriptions for figures 9 t/m 19.

FIG. NO.	DESCRIPTION
1	Gas fire; Concentric top connection Ø130 / Ø200 mm
2	-
3	-
4	Restriction plate (The different sizes restriction plates are supplied with every appliance)
5	Chimney, min. Ø150 mm internal, totally gas tight
6	Chimney or fireproof sleeving. Min. Ø160 mm internal
7	Ø100 mm internal flexible stainless steel gas vent chimney liner AISI 316TI
8	Ø150 mm internal flexible stainless steel gas vent chimney liner AISI 316TI
9	-

AVAILABLE COMPONENTS FOR THE BARBAS CONCENTRIC FLUE SYSTEM Ø100 mm - Ø150 mm

FIG. NO.	ART. / ORDER NO.	DESCRIPTION	Color(*)		Application	
			RVS	antr.	RIGID	FLEX
10	302289	Twin-wall balanced flue pipe, L = 500 mm, incl. ① and ②	●		●	
11	302290	Twin-wall balanced flue pipe, L = 1000 mm, incl. ① and ②	●		●	
12	302291	Telescopic twin-wall balanced flue pipe, L = min. 325 mm / max. 440 mm, incl. ① and ②	●		●	
13	302292	Adjustable length twin-wall balanced flue pipe, L = 500 mm, incl. ① and ②	●		●	
14	302297	Twin-wall balanced flue elbow 90º, incl. ① and ②	●		●	
15	302298	Twin-wall balanced flue elbow 45º, incl. ① and ②	●		●	
16	302295	Vertical (roof) termination kit, L = 1360 mm (vertical), incl. ①, ② and ④	●	●	●	●
17	302212	Adjustable roof flashing. Roof pitch 20º - 45º (**), with lead flashing	●		●	●
18	302213	Roof flashing for existing chimney or flat roof.	●		●	●
19	302296	Horizontal (wall) termination kit, L = 600 mm (horizontally adjustable)), incl. ①, ② and one set of wall spacer plates	●	●	●	●
20	302293	① : Stainless steel locking band Ø150 mm, quick-fastening	●		●	●
21	302210	② : Silicone seal Ø150 mm			●	●
22						
23	302215	④ : Wall strap	●		●	●
24	302214	Set of ceiling finishing plates / fire stops	●		●	●

FIG. NO.	ARTICLE / ORDER NO.	DESCRIPTION	Color (*)		Application	
			RVS	antr.	RIGID	FLEX
25	302189	Ceiling plate for transition Ø100 mm / Ø150 mm rigid-Ø100 mm (flex.).	●		●	●
26	302278	Stainless steel adapter piece (100) from fire to flexible, Ø100 mm external (rigid) x Ø107 mm internal (flex.). [appliance - Ø100 mm flex.] and [Ø100 mm rigid - Ø100 mm flex.].	●			●
27	302279	Stainless steel adapter piece (150) fire to flexible, Ø148 mm external (rigid) x Ø148 mm internal (flex.) [appliance - Ø150 mm flex.].	●			●
28	302217	Stainless steel locking band Ø150 mm. For adapter 150 [appliance - Ø150 mm (flex.)], Screw-fastening	●		●	●
29	303776	Stainless steel screws Ø3.5 mm x 9.5 mm. For securing the flexible concentric flue. (Minimum 3 screws per connection)	●			●
30	304041	Hose clamp Ø100 mm. (Minimum 2 per connection)	●			●
31	304042	Hose clamp Ø150 mm. (Minimum 2 per connection)	●			●
32	302307	Vertical (roof) termination kit, L = 610 mm (vertical), incl. ① and ②. For the flexible flue system.	●	●	●	●
33	302301	Concentric T-piece with gauging orifice, incl. ① and ②	●		●	
34	302302	Concentric pipe with gauging orifice, L = 165 mm, incl. ① and ②	●		●	
35	302303	90° concentric bend with inspection panel, incl. ① and ②	●		●	
36	321948	Universal wall / floor support Ø150 mm	●		●	

(*) : Color : RVS : Stainless steel self-colour, polished
antr. : Anthracite colour lacquer, matt

(**) : Adjustable roof flashing for a slope > 45° can be supplied on request.

When installing a balanced-flue “closed” gas fire in an existing chimney, ensure stainless steel flexible liners (Ø100 mm or Ø130 mm) conforming with BS 316 are used to conduct the spent gases.

AVAILABLE COMPONENTS FOR THE BARBAS CONCENTRIC FLUE SYSTEM Ø130 mm - Ø200 mm

FIG. NO.	ARTICLE / ORDER NO.	DESCRIPTION	Color (*)		Application	
			RVS	antr.	RIGID	FLEX
100	302319	Concentric reduction of Ø130 / Ø200 mm ⟶ Ø100 / Ø150 mm	●		●	●
110	302308	Twin-wall balanced flue pipe, L= 500 mm, incl. ⑤ and ⑥	●		●	
111	302309	Twin-wall balanced flue pipe, L= 1000 mm, incl. ⑤ and ⑥	●		●	
113	302310	Adjustable length twin-wall balanced flue pipe, L = 500 mm, incl. ⑤ and ⑥	●		●	
114	302314	Twin-wall balanced flue elbow 90°, incl. ⑤ and ⑥	●		●	
115	302315	Twin-wall balanced flue elbow 45°, incl. ⑤ and ⑥	●		●	
119	302313	Horizontal (wall) termination kit, L= 600 mm (horizontally adjustable), incl. ⑤, ⑥ and one set of wall spacer plates	●	●	●	
120	302311	⑤ : Stainless steel locking band Ø200 mm, quick-fastening	●		●	●
121	302248	⑥ : Silicone seal Ø200 mm			●	●
123	302251	⑧ : Wall strap			●	●
124	302250	Set of ceiling finishing plates / fire stops	●		●	●
126	302281	Stainless steel adapter piece (130) from fire to flexible, Ø130 mm external (rigid) x Ø137 mm internal (flex.), [appliance - Ø130 mm flex.] and [Ø130 mm rigid - Ø130 mm flex.].	●			●
127	302282	Stainless steel adapter piece (200) from fire to flexible, Ø198 mm external (rigid) x Ø198 mm internal (flex.), [appliance - Ø200 mm flex.]	●			●
128	302257	Stainless steel locking band Ø200 mm. For adapter 200. [appliance - Ø200 mm flex.]. Screw-fastening	●		●	●
129	303776	Stainless steel screws Ø3.5 mm x 9.5 mm. For securing the flexible concentric flue. (Minimum 3 screws per connection)	●			●
130	304045	Hose clamp Ø130 mm. (Minimum 2 per connection)	●			●
131	304046	Hose clamp Ø200 mm. (Minimum 2 per connection)	●			●

The room-sealed gas appliances have been approved in combination with the in this instructions for use described concentric flue systems according to the European CE norm for gas appliances and may therefore be used only in combination with these flue systems.

3.4.3 Gas connection

Operation (gas regulating block (and receiver)) **within** the appliance:
The gas connection Ø12 mm (3/8”) is located on the right-hand side of the appliance.

Operation (gas regulating block (and receiver)) **outside** the appliance (in the operating unit):
The gas connection is situated where the operating unit is built in near to the appliance.

Use only gas piping with a minimum diameter of 1/2” and a shut-off valve.

3.4.4 Operating unit

If the appliance is fitted with a operating unit comprising gas control block and receiver, this will be located, once it has been built in, at a **maximum of 50 cm** from the left or right hand side of the appliance.

3.4.5 Convection package connections

When fitting a convection package, consideration should be given to the openings at approximately 1 meter above the appliance for the warm air exiting grids.
If a convection package is to be fitted, the metal “insulation” shield at the top of the appliance, must also be removed.

3.5 POSITIONING THE APPLIANCE

Important: **The fire and fireplace must be mounted on a concrete floor. If there is no concrete floor, it is essential to re-enforce the floor boards from beneath with concrete.**

Never place the appliance directly on the floor, but always make sure that there is a clearence of at least 5 cm between the appliance and the floor.

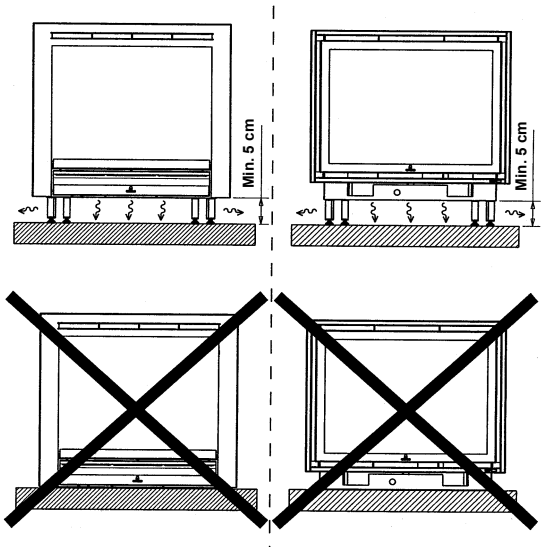


Figure 20: A clearence of at least 5 cm must be maintained between the appliance and the floor.

Never position the appliance directly against the rear wall, but always place an inflammable insulation plate, at least 12 mm thick, between the appliance and the rear wall, with free space on either side of 2 cm. (Total + 5 cm.)
The rear wall must be made of inflammable material.

Never use combustible materials during the installation.

Ventilate the fireplace, by allowing vents above and below the fireplace.

During installation of the gas fire, a clearance of 3 mm should be maintained on all sides of the appliance to allow for expansion of the appliance during operation.

Do not insulate the appliance! Only the top and sides may be fitted with a strip of white, loose insulation wool (heat-resistant to 1000°C), width 15 cm max. to protect the wall.

Do not use fibreglass or Rockwool, or any other sort of insulating material. These emit a pungent odour.
This is considered extremely unpleasant. They may also cause discolouring of the column.

Flammable materials, such as curtains, should not be placed in the vicinity of the gas fire.
Minimum safe distance: 100 cm.

View Bell Room Divider: Large / Medium	**If the appliance is <u>hung</u>, use the proper connecting method, suitable for the particular wall or partition.** **The appliance may only be fitted to a rigid wall made of <u>inflammable material</u>.** **The insulation plate and free gaps between appliance and the wall are not required for this appliance if it is suspended.**

If desired, fit a convection package to the appliance.
(See chapter 3.1)

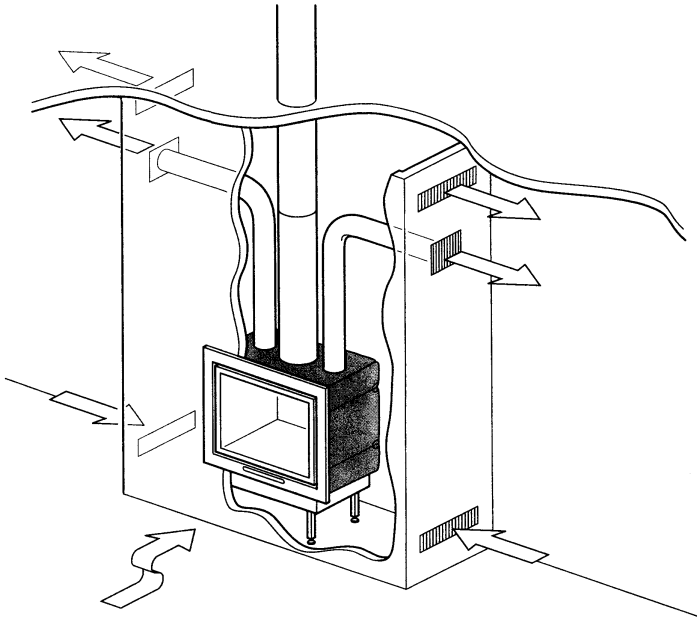


Figure 21: Use of convection package and ventilation of fireplace

When fitting the appliance, it can be levelled with the adjustable feet.

Position the gas supply pipe such that it can be easily mounted after installation.
If the appliance has a operating unit, the gas pipe must be leaded to where the operating unit (built in), the gas regulating block (and the receiver) assembly are fitted.

Move the appliance until it is + 5 cm from the rear wall and ensure it is level. Place the inflammable insulation plate (min. 12 mm) between the appliance and rear wall. The appliance may not be installed against a flammable rear wall.

Attach the appliance to the rear wall with 2 wedge bolts. Use the adjustable mounting brackets at the top of the appliance for this.

View Bell Room Divider: Large / Medium	If the appliance is hung on the wall, attach it with 4 Ø8 mm or Ø10 mm key bolts. An insulation plate and free gaps between the appliance and wall are not necessary. Ensure that the appliance is hanging level and that the concentric exhaust vent/combustion air supply connection of the appliance is in perfect alignment with the hole in the ceiling or wall!

3.5.1 Connecting the gas

Important: During gas connection, take care not to twist the gas regulating block. Make sure that both the gas regulating block and the supply pipes are not subjected to stresses.

Appliance with operation in the separate operating unit (built in or otherwise):

- The control unit and piping are supplied separately (flat packed)

Remove the decorative edging and door of the operating unit. Fit the separate operating unit with the gas control block and receiver max. 50 cm from the appliance.

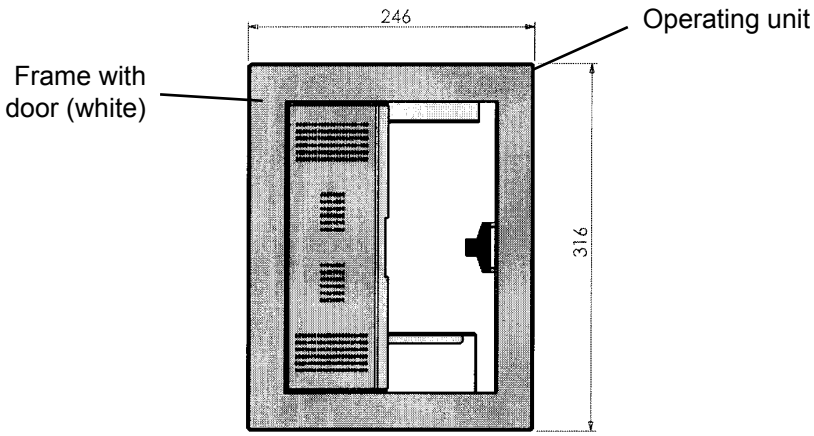


Figure 22: Operating unit

Connect the supplied Ø8 mm copper gas pipe to the underside of the burner plate on the fire using the compression coupling.

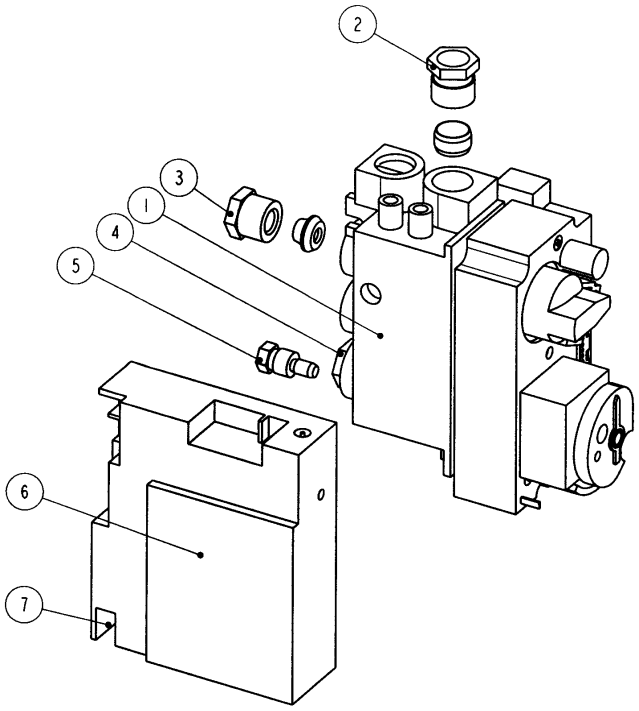
ATTENTION !!!
BLOW THE INSIDE OF THE COPPER PIPE
WELL CLEAN AFTER BENDING

The connections for the main burner (Ø8 mm copper), pilot light (Ø4 mm copper or aluminium), thermocouple (thermocouple interrupter) and piezo cable can now be made at the gas regulating block in the operating unit. If the system has remote control, the piezo cable, the 8-terminal cable and the two thermocouple cables must be connected to the receiver (see figure 23 and Chapter 6: Electrical Diagram).

Important: **Using the hand, screw the thermocouple connection (and thermocouple interrupter) into the back of the gas regulating unit. Carefully tighten another half of a turn using a fork spanner. See figure 23, 24 and Chapter 6.**

Remote control

Gas regulating block and receiver in operating unit

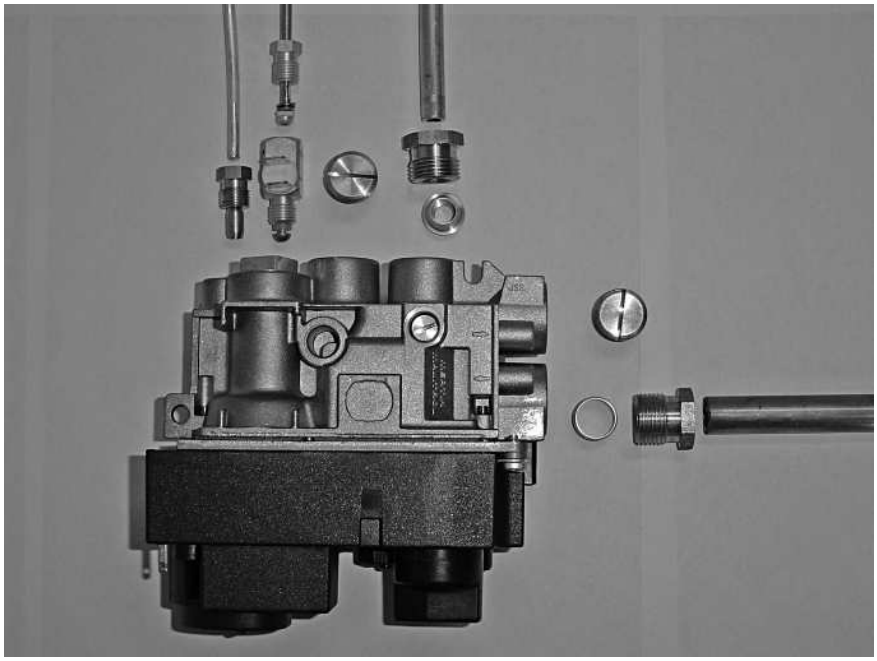


1 Gas regulating block
2 Gas supply connection 3/8” - Ø12 mm insertion
3 Burner piping connection Ø8 mm insertion
4 Thermocouple connection M 10x1 mm insertion
5 Pilot light piping connection Ø4 mm insertion
6 Receiver
7 Piezo cable connection

Figure 23: Remote control: Gas regulating block and receiver in operating unit

Remote control

The photo below shows how the piping for a remote control gas regulating block must be fitted.



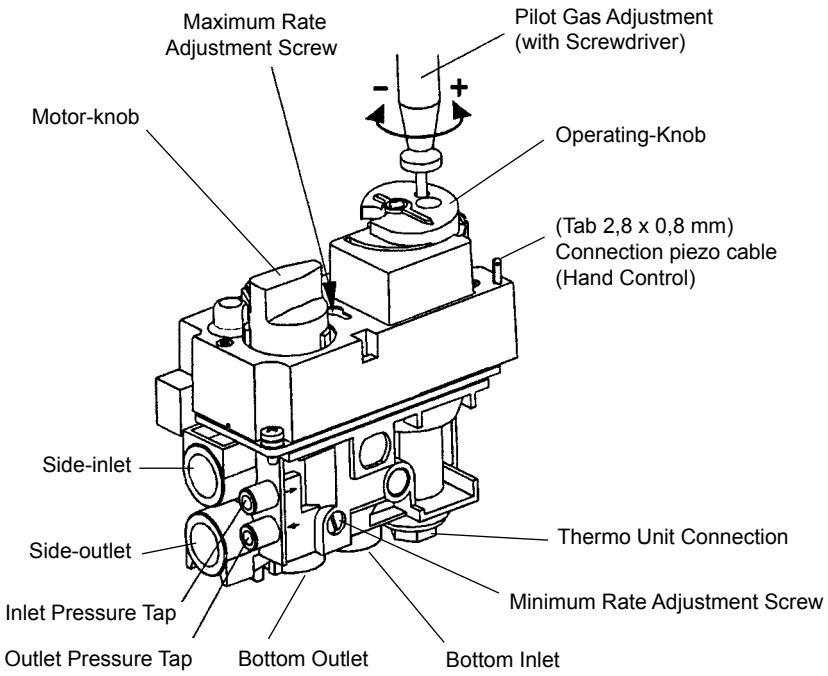


Figure 24: Gas regulating block Remote control

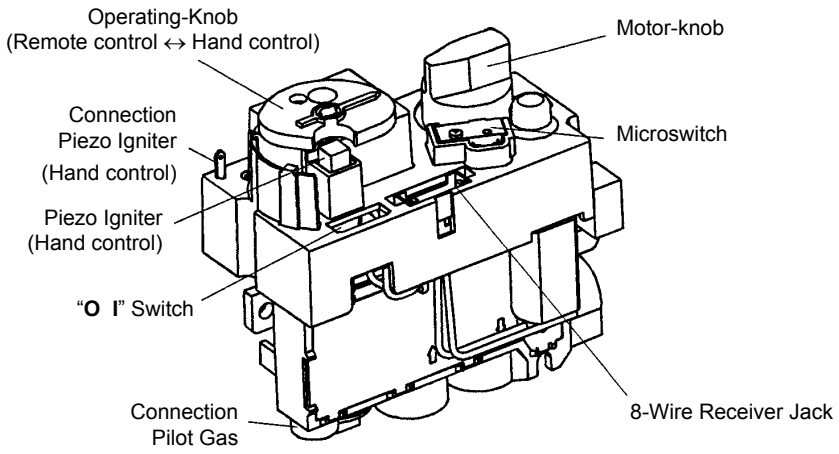
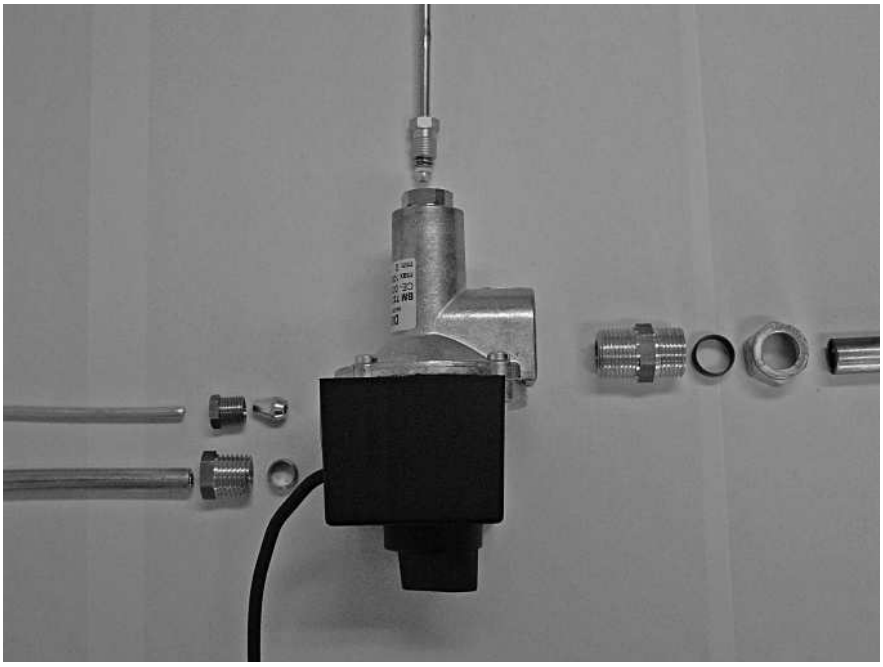


Figure 25: Gas regulating block Remote control

Hand control

Gas regulating block in operating unit

The photo below shows how the piping for a hand control gas regulating block must be fitted.



Appliance with operation in the separate operating unit (built in or otherwise).

- Gas control block and piping supplied as an pre-assembly.

First detach the bracket with the gas control block from the appliance.
Fit the separate control unit max. 50 cm from the appliance.
Fit the receiver in the top of the control unit. Connect the piezo cable, the 8-terminal cable and the two thermocouple cables to the receiver (see Chapter 6: Electrical Diagram).

Carefully move the bracket with the gas regulating block and piping towards the control unit. Fit the bracket to the bottom of the control unit. Make sure that you do not damage any of the piping or detach any compression couplings while doing this.
After you have done this, check the compression couplings for leaks.

General:

Route all piping and cables from the operating unit to the appliance through an easily accessible hollow cavity or a heat-resistant pipe of minimum Ø50 mm.

During subsequent installation of the operating unit, protect the gas regulating block and piping against encasement by cement etc.

Important:

Cement and chalk can damage the piping and can, in turn, lead to gas leaks.

3.5.2 Connecting the concentric flue

Assemble the concentric flue system according to one of the examples in section 3.4.1, figure 9 to 19 inclusive.
Make sure that all connections are completely gas tight.

3.5.3 Building in the appliance

Remove the front of the casing, if applicable.
Decide on positions of the vents (grilles above and below the fireplace) and, if applicable, the hot air grids of the convection package.

The brickwork must be built up around the hearth. In connection with the hearth expanding during burning: there must be at least 3 mm clearance on either side of the appliance. Do not build up the brickwork farther than the angle irons/brackets (keep in mind the thickness of any plastering!).

Do not use masking tape on the appliance when installing and plastering.
Tape can damage the finish of the hearth.

Connect up the convection package, if applicable.

The optional mantle iron is intended for supporting the brickwork above the hearth. The mantle iron must rest on the brickwork on both sides so that upward building is possible. The brickwork therefore must not rest on the fireplace; there must be approx. 3 mm clearance in connection with the weight.

When installing the appliance, make sure that the metal panels around the glass can at all times be removed and replaced.

If using other materials, such as stone or heat-resistant plating, you should follow the supplier's instructions.

Once the fireplace has been finished, you can now, for appliances with an operating unit, fit the frame with the small door to the operating unit.

After installation in a new fireplace and/or applying new cement work, the appliance cannot be used for at least four weeks.

3.5.4 Checking the gas connection

After connection of the gas supply, check that all connections are completely gas tight using soapy water or a leak tester.

3.5.5 Positioning the ceramic log set or marble pebbles

The appliance can be supplied with:
- Ceramic log set + embers
- Marble pebbles white (small, white marble stones)
- Marble pebbles grey (small, grey marble stones)

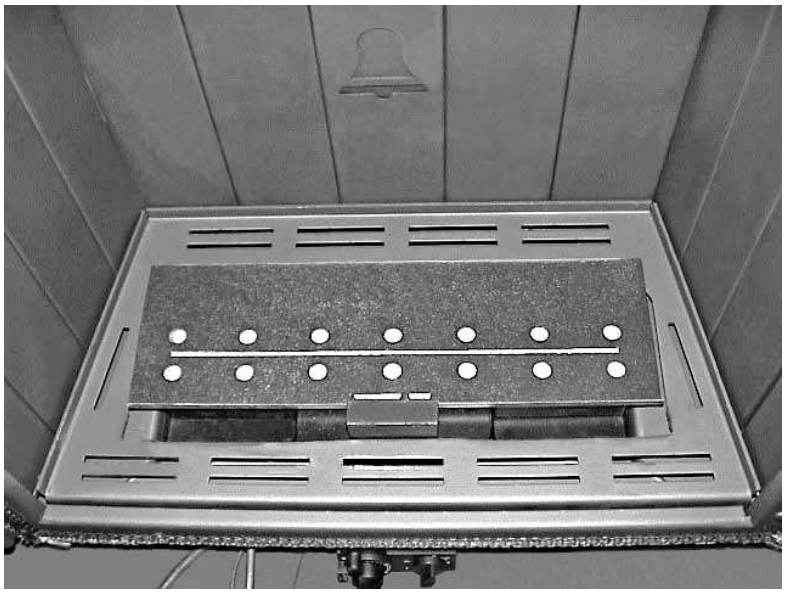
Important:

- **Carefully place the chips of wood/embers/vermiculite granules/ log set or marble pebbles, on and around the main burner according to the directions in this chapter.**
- **Do not place any chips of wood/embers/vermiculite granules/ log set or marble pebbles against the pilot light burner. For that reason, the main burner has a protective pilot-light cowl. Never remove this cowl! Make sure that the pilot flame can burn at all times freely over the main burner. Only in this way is proper ignition of the main burner ensured. Ignoring these directions could lead to a dangerous situation.**
- **Make sure that all burner orifices remains free at all times!**
- **The burner bed (with chips of wood/embers/vermiculite granules) and the positioning of the logs or marble pebbles must not be changed.**
- **Only use those items supplied! These been rigorously checked and the quantities adapted to the appliance.**
- **Replacement parts, including the ceramic mat are available from your dealer.**
- **Fitting may only be carried out by a qualified person.**

Remove the glass, and any existing frame, according to the instructions in chapter 6; DISMANTLING / ASSEMBLING OF THE “HIDDEN DOOR” GLASS.

3.5.5.1 Ceramic log set + chips of wood + embers + vermiculite granules

1 Place the ceramic mat on the burner in such a way that the holes in the mat are in line with the burner openings.
2 Remove the embers carefully from their packaging and spread them evenly over the burner mat and the grate around the burner.
3 Distribute the vermiculite granules (50 gram) evenly over the burner.



Note ! :

- **Small embers and their residue should not be scattered on the burner. This can cause a blockage on the burner orifices.**
- **Embers and vermiculite granules must not be placed next to the pilot light burner.**
- **Important: make sure that all burner openings remain free !! <u>Burner orifices, which are not open, could lead to a dangerous situation</u>.**

4 Place the logs on the burner:

<u>Appliance</u>	<u>Natural gas-burner</u> see figure:	<u>Propane / Butane-burner</u> see figure:
Horizon Bell XXL	26	26
Horizon Bell XL	27	27
Horizon Bell Large	28	28
Corner Bell Large L/R	28	28
Corner Bell Medium L/R	29	30
View Bell Large	28	28
View Bell Medium	31	30
Horizon Bell Large Tunnel	32	32
View Bell Room Divider Large	33	34
View Bell Room Divider Medium	35	36

Keep the burner orifices unblocked !!!

5 Place the chips of wood <u>around</u> the burner.

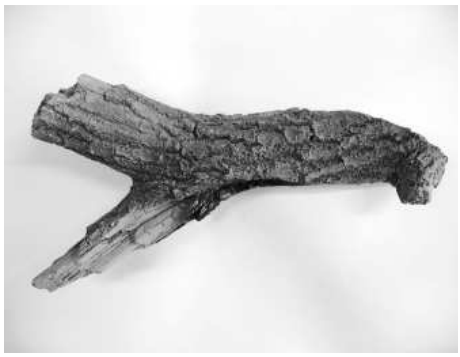
Logs:

Log no ①

Log no ②

Log no ③

Log no ④

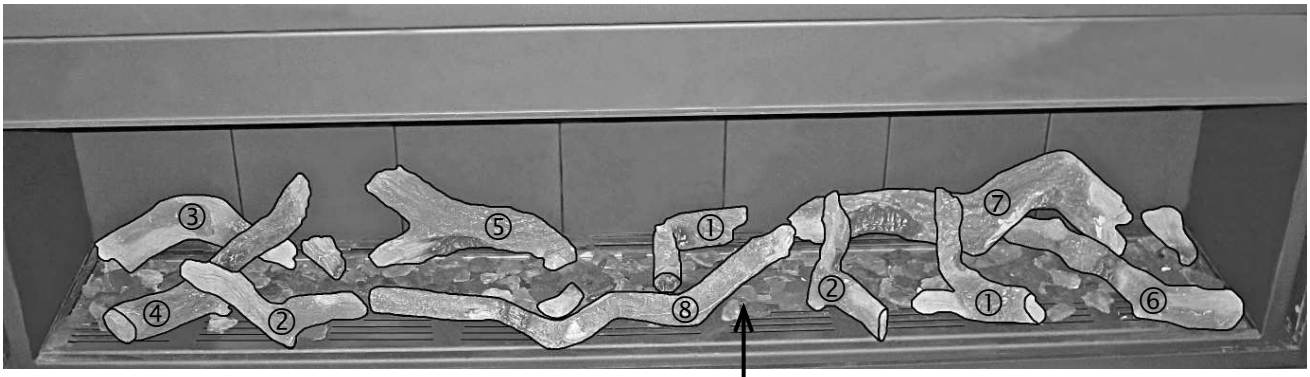


Log no ⑤

Log no ⑥

Log no ⑦

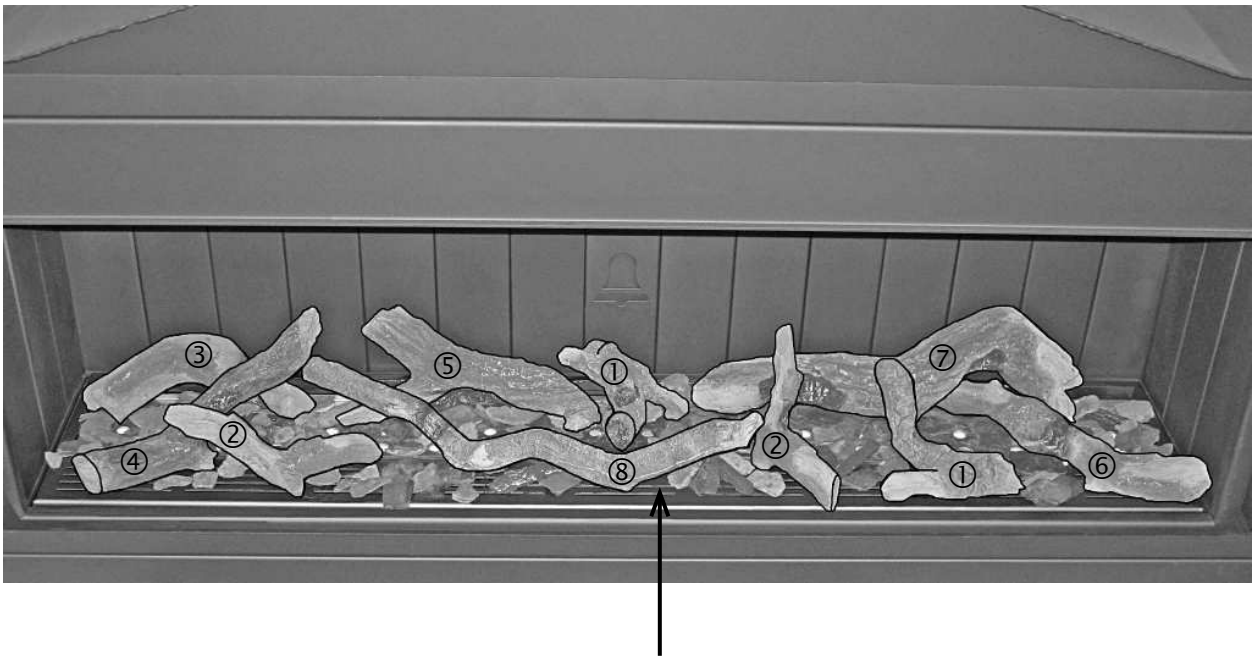
Log no ⑧



Embers must not be placed next to the pilot light burner

Keep the burner orifices unblocked!

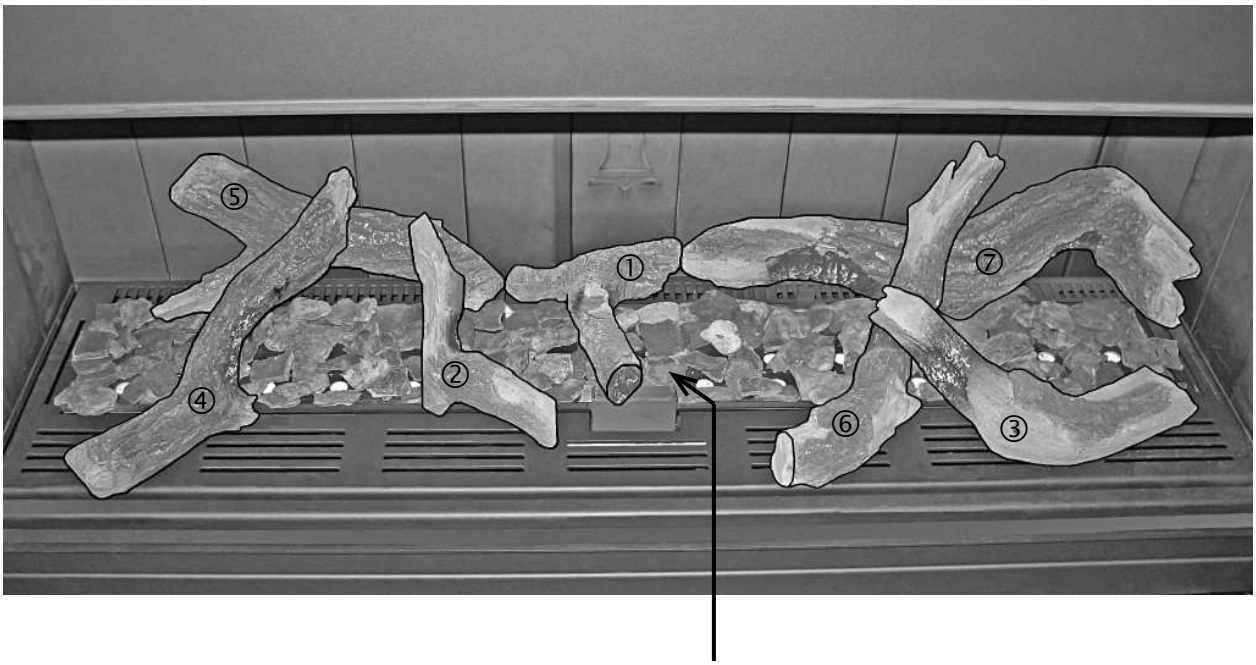
Figure 26: Log set Horizon Bell XXL
Position natural gas and propane burner



Embers must not be placed next to the pilot light burner

Keep the burner orifices unblocked!

Figure 27: Log set Horizon Bell XL
Position natural gas and propane burner



Embers must not be placed next to the pilot light burner

Keep the burner orifices unblocked!

Figure 28: Log set Horizon Bell Large - Corner Bell Large L/R - View Bell Large Position natural gas and propane burner

---

Embers must not be placed next to the pilot light burner

Keep the burner orifices unblocked!

Figure 29: Log set Corner Bell Medium L/R Position natural gas burner

Embers must not be placed next to the pilot light burner

Keep the burner orifices unblocked!

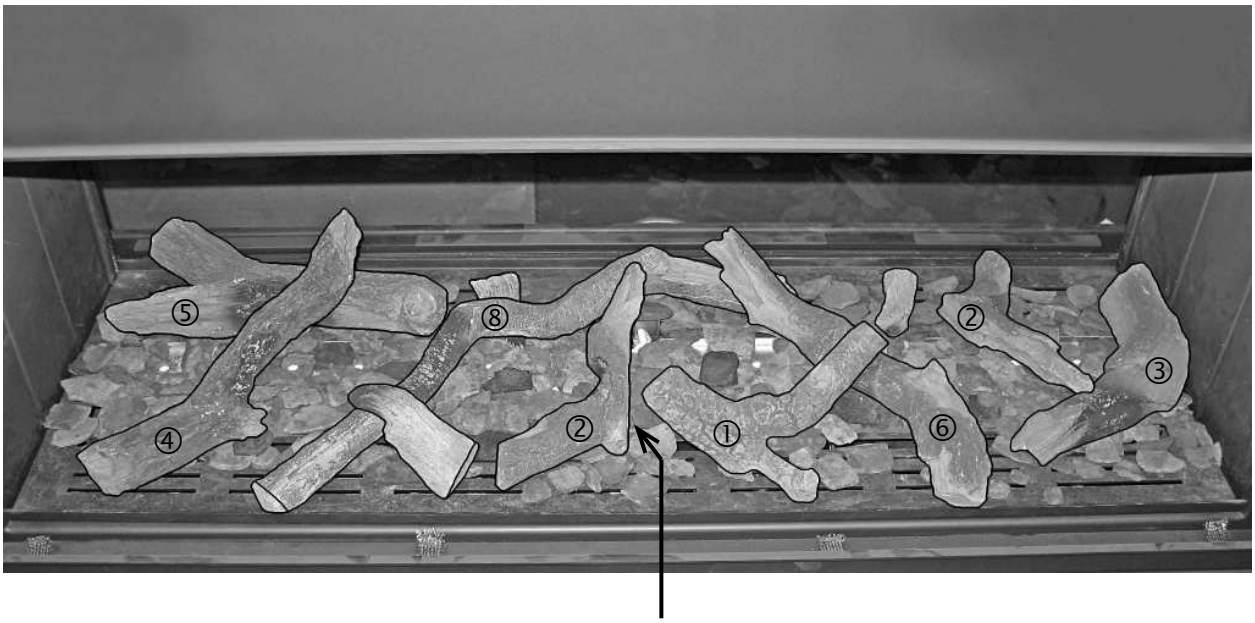
Place the logs around the burner

Figure 30: Log set Corner Bell Medium L/R - View Bell Medium
Position propane burner

Embers must not be placed next to the pilot light burner

Keep the burner orifices unblocked!

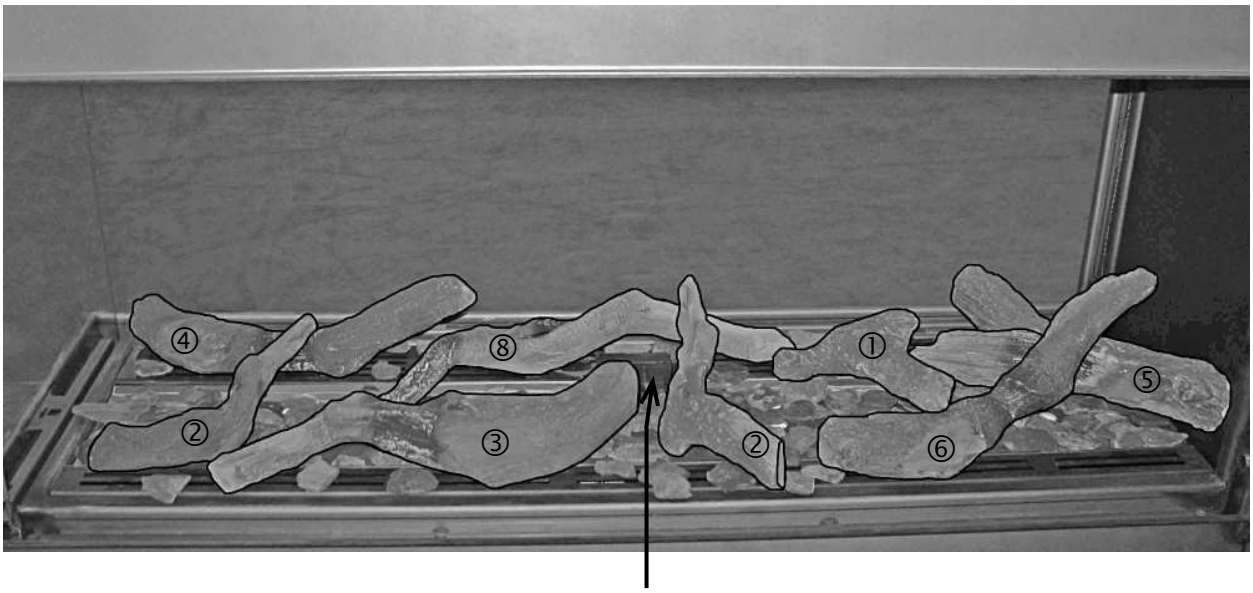
Figure 31: Log set View Bell Medium
Position natural gas burner



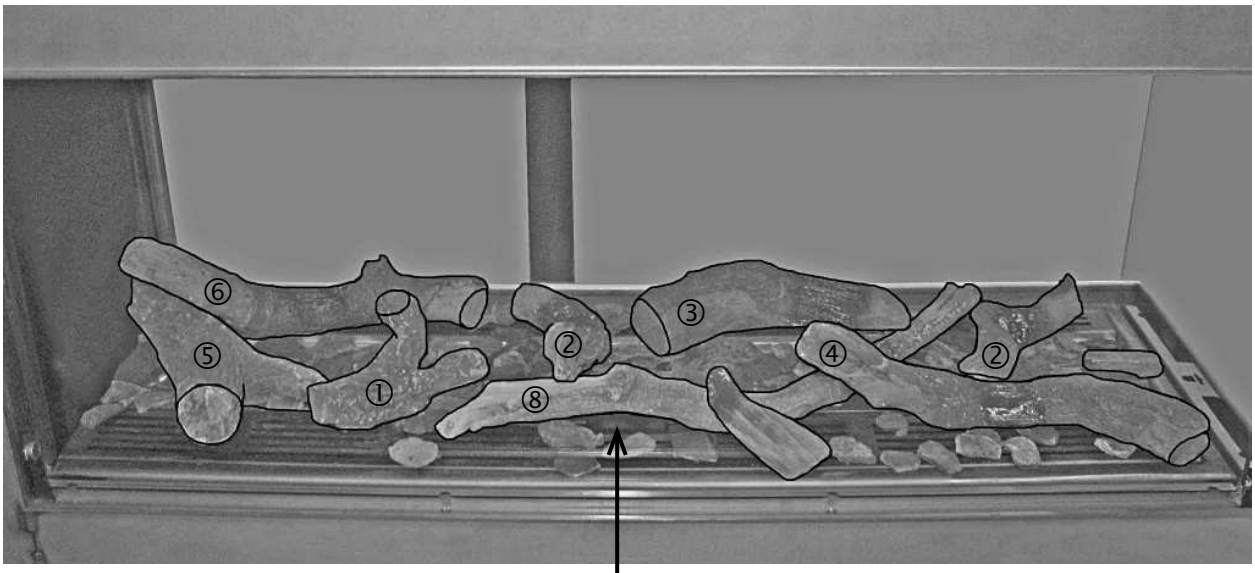
Embers must not be placed next to the pilot light burner

Keep the burner orifices unblocked!

Figure 32: Log set Horizon Bell Large Tunnel
Position natural gas and propane burner



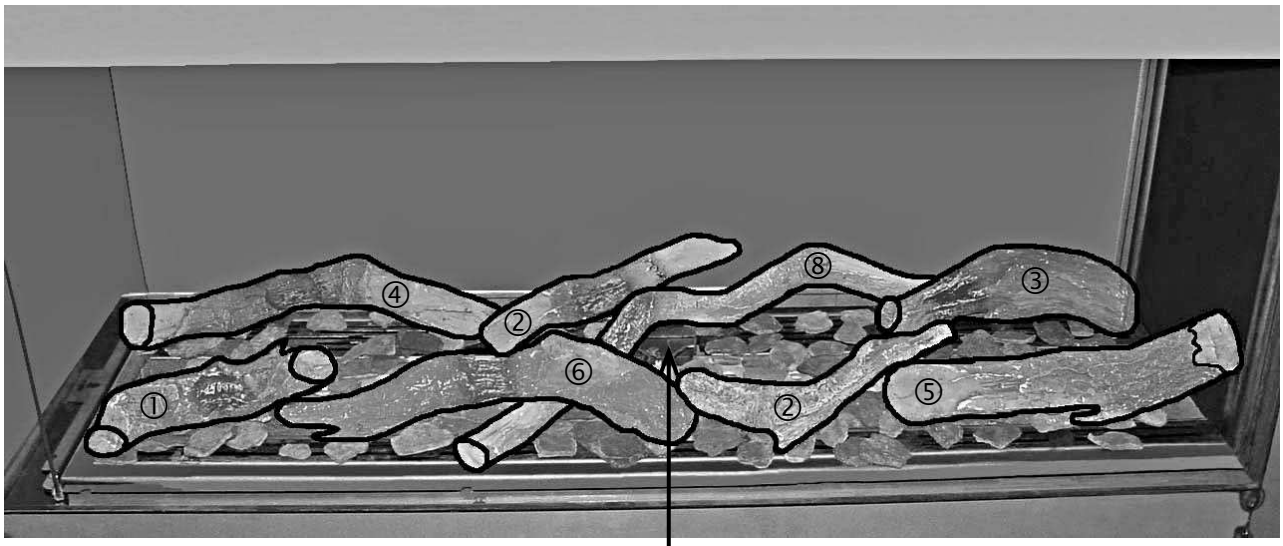
Embers must not be placed next to the pilot light burner



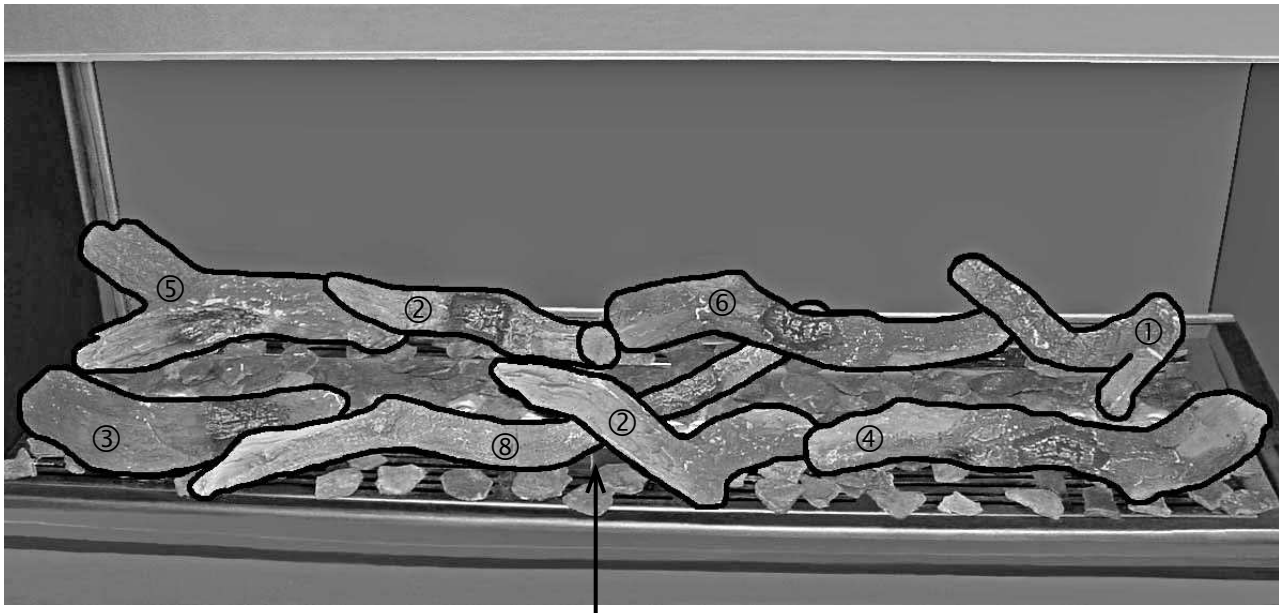
Embers must not be placed next to the pilot light burner

Keep the burner orifices unblocked!

Figure 33: Log set View Bell Room Divider Large
Position natural gas burner



Embers must not be placed next to the pilot light burner



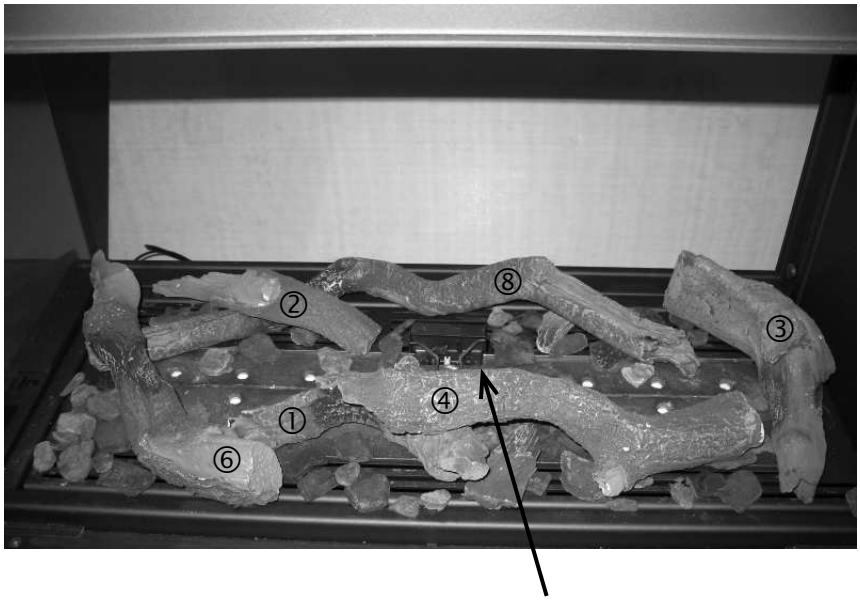
Embers must not be placed next to the pilot light burner

Keep the burner orifices unblocked!

Figure 34: Log set View Bell Room Divider Large
Position propane burner

Keep the burner orifices unblocked!

Figure 35: Log set View Bell Room Divider Medium
Position natural gas burner



Keep the burner orifices unblocked!

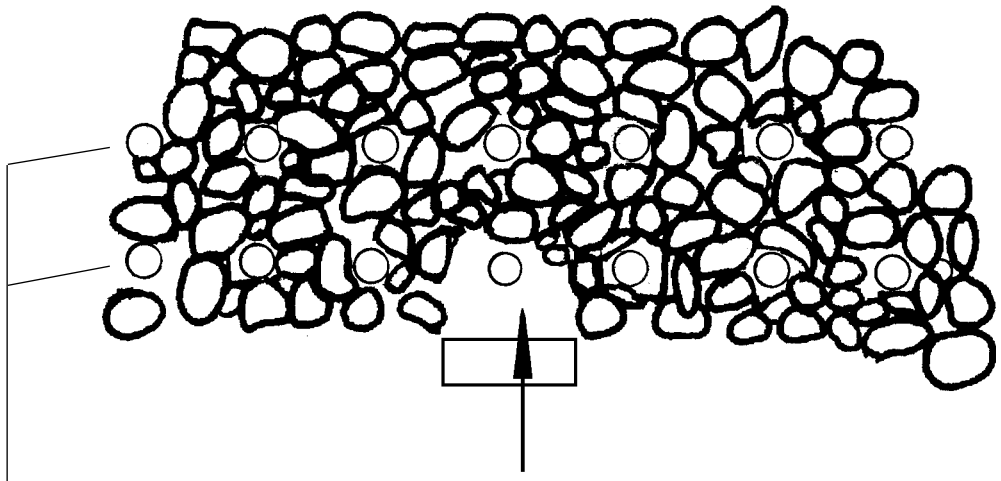
Place the logs around the burner

Figure 36: Log set View Bell Room Divider Medium
Position propane burner

3.5.5.2 Marble pebbles

1 Place the ceramic mat on the burner in such a way that the holes in the mat are in line with the burner openings.
2 Spread the pebbles over the whole burner bed (burner and grid around the burner). Make sure that the pilot light remains free.

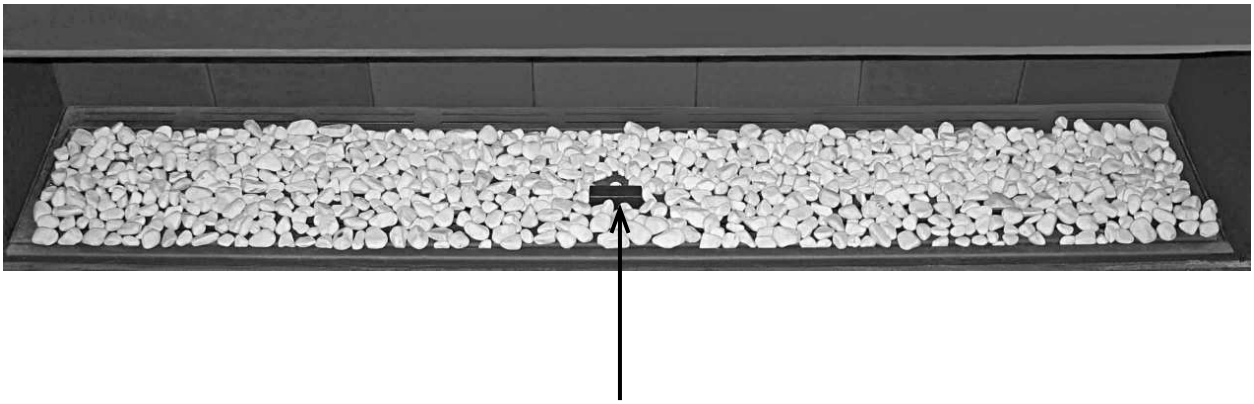
Horizon Bell XXL	:	see figure 38
Horizon Bell XL	:	see figure 39
Horizon Bell Large	:	see figure 40
Corner Bell Large L/R	:	see figure 40
Corner Bell Medium L/R	:	see figure 41
View Bell Large	:	see figure 40
View Bell Medium	:	see figure 41
View Bell Room Divider Large	:	see figure 40
View Bell Room Divider Medium	:	see figure 41
Horizon Bell Large Tunnel	:	see figure 42



IMPORTANT: Open area, in order to ensure free accessibility of the pilot flame to the burner

Keep the burner orifices unblocked

Figure 37: Marble pebbles-set natural gas and propane



Marble pebbles must not be placed
next to the pilot light burner

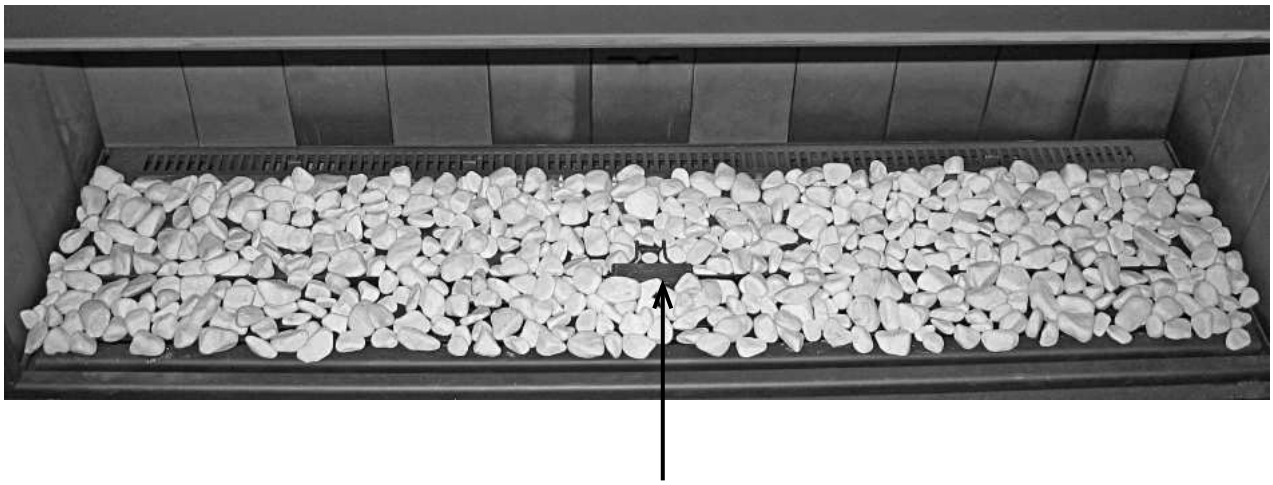
Keep the burner orifices unblocked!

Figure 38: Marble pebbles Horizon Bell XXL
Position natural gas and propane burner

Marble pebbles must not be placed
next to the pilot light burner

Keep the burner orifices unblocked!

Figure 39: Marble pebbles Horizon Bell XL
Position natural gas and propane burner



Keep the burner orifices unblocked!

Figure 40: Marble pebbles Horizon Bell Large - Corner Bell Large L/R - View Bell Large - View Bell Room Divider Large Position natural gas and propane burner

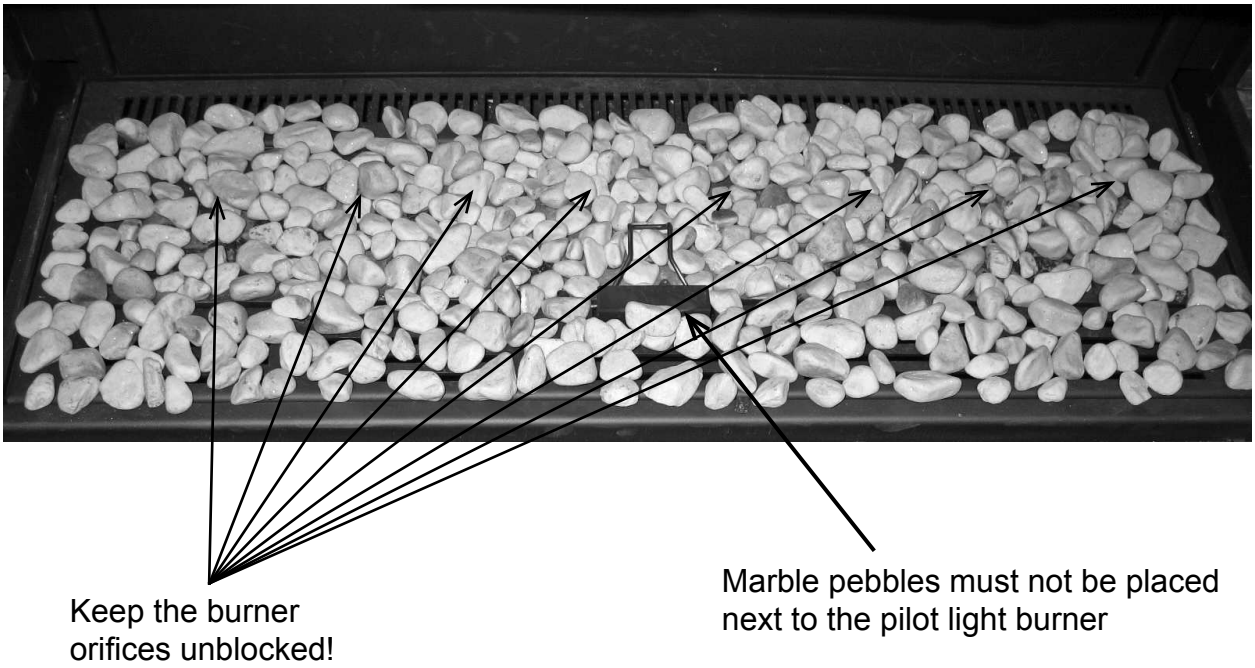
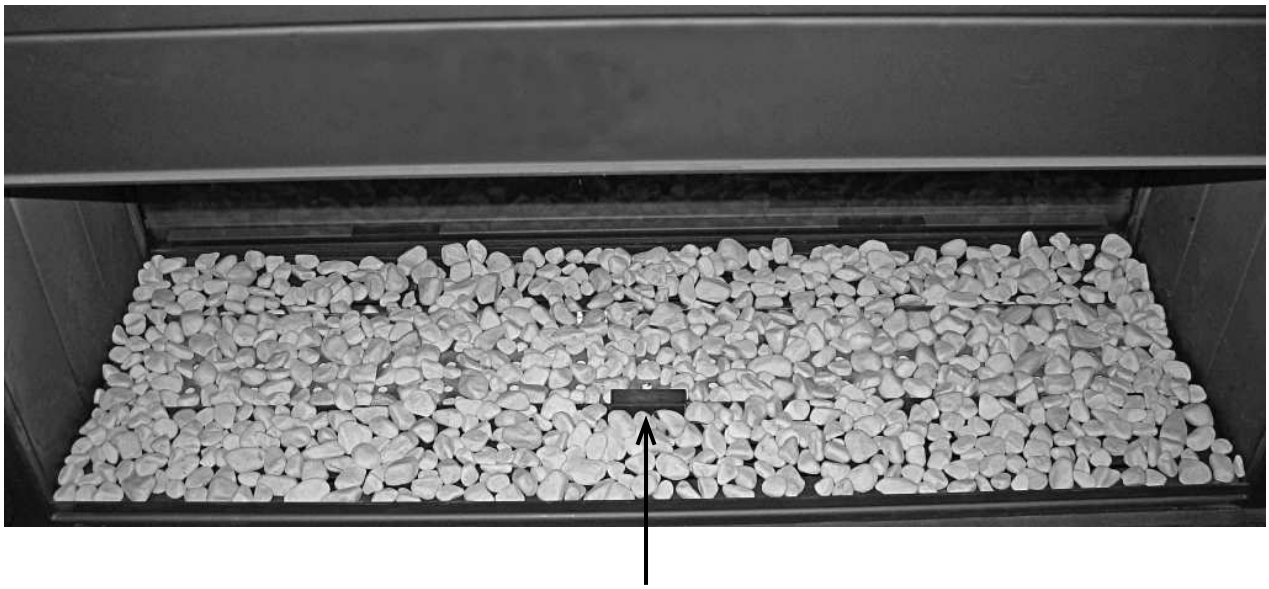


Figure 41: Marble pebbles Corner Bell Medium L/R - View Bell Medium - View Bell Room Divider Medium Position natural gas and propane burner



Marble pebbles must not be placed
next to the pilot light burner

Keep the burner orifices unblocked!

Figure 42: Marble pebbles Horizon Bell Large Tunnel
Position natural gas and propane burner

Important:

- **Do not place any marble pebbles in front of the pilot light. Make sure that the pilot light can burn freely over the main burner.**
- **Keep the burner orifices unblocked.**

Only this way a proper ignition of the main burner is ensured.

Once the logs / marble pebbles have been positioned, replace the glass in the appliance, following the instructions in chapter 6: DISMANTLING / ASSEMBLING OF THE “HIDDEN DOOR” GLASS. The bolts and/or screws used for this should not be tightened too tightly, as this could cause the glass to crack!

If applicable, the frame can now be replaced on the appliance. **Note: Do not fit the frame until the wall has been finished. Use the protective items supplied (gloves or cleaning cloth). Do not use masking tape on the frame!**

3.5.6 Mounting flue gas restriction plate

Depending on the length and shape of the concentric flue system and the chimney construction, you should, if indicated, fit a restriction plate with a certain width (B) into the ceiling of the combustion chamber.
To do this, see the set-up options as listed in figure 9 through 19.

Important: **Ensure that the correct flue gas restriction plate is mounted. Use of the correct flue gas restriction plate will provide optimum efficiency, flame effect and combustion. Mounting an incorrect flue gas restriction plate can result in damage to the gas fire.**

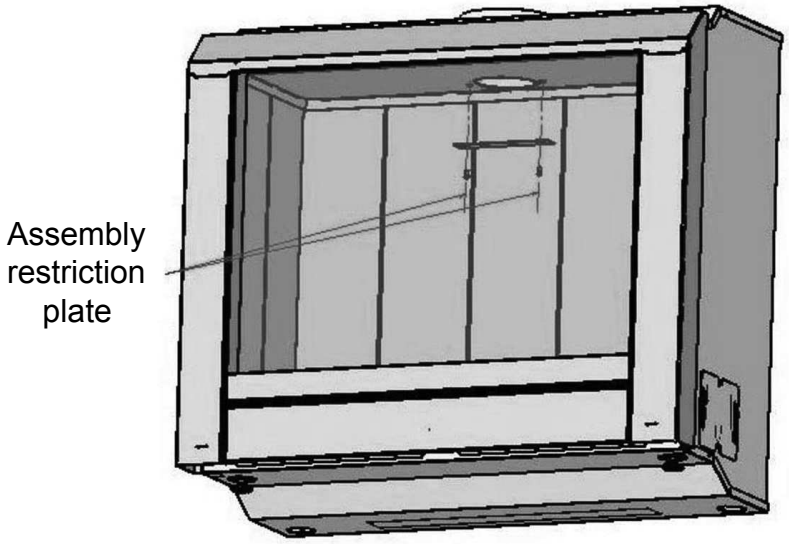
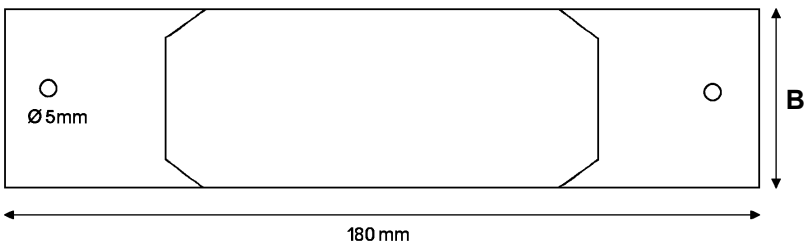


Figure 43: Positioning restriction plate

The following restriction plates are supplied:

- **Horizon Bell XXL**
- **Horizon Bell XL**
- **Horizon Bell Large**
- **Horizon Bell Large Tunnel**
- **Corner Bell Large L/R**
- **Corner Bell Medium L/R**
- **View Bell Large**
- **View Bell Medium**
- **View Bell Room Divider Large**
- **View Bell Room Divider Medium**



Restriction plate:
1: Width: B = 40 mm
2: Width: B = 65 mm
3: Width: B = 80 mm

3.5.7 Checking the appliance following installation

After installation, visually check the gas flame. When the fire is ignited, the flames should be short and blue/yellow in colour. These flames should gradually increase in height and become more yellow. When all flames are yellow, the gas fire has reached the correct temperature.

THE GAS FIRE IS NOW READY FOR USE

4 MAINTENANCE

4.1 ANNUAL MAINTENANCE

It is <u>essential</u> that the appliance, the complete concentric flue system (where possible) and the outlet are cleaned and inspected <u>annually</u> by a recognised fitter/gas specialist. The safe operation of the appliance will thus remain guaranteed.

Maintenance consists of the following:

- Remove first the embers, vermiculite granules, logs set or pebbles from the main burner and carefully clean these with a soft brush.

- Clean and inspect (visually) the main burner, pilot light, combustion chamber, flue system and combustion air intake. Dust can be removed using a vacuum cleaner.

- After cleaning;
  Carefully replace the embers, vermiculite granules, logs set or pebbles on and around the main burner according to the installation directions in this instruction booklet.
  Do not place any embers, vermiculite granules, logs or pebbles against the pilot light burner. Make sure that the pilot flame can burn at all times freely over the main burner. Only in this way is proper ignition of the main burner ensured. Ignoring these directions could lead to a <u>dangerous situation</u>.

- Check the gas supply, flue system, and combustion air supply route for leaks.

- Check the correct operation of the gas regulating block, thermocouple circuit and the ignition of the main burner.

- Check the gas inlet-pressure (both when the appliance is off and when it burns at maximum) and the burner pressure.

- Check the complete concentric flue system including the outlet construction.
  A camera can be used to inspect the whole length of the flue gas outlet and the combustion air intake.
  Also check that all connections are secure.

5 FAULTS

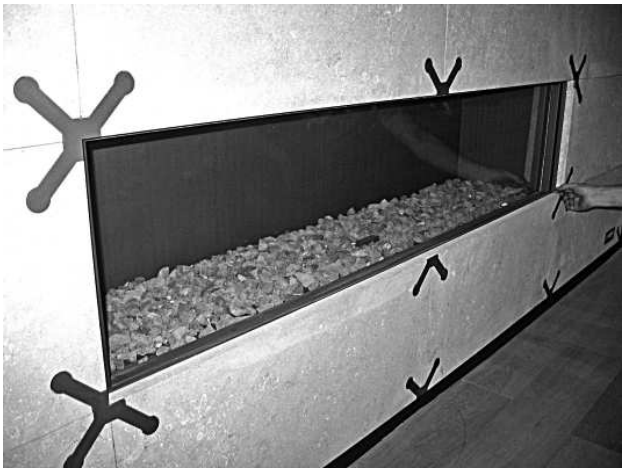
Possible reasons for the gas fire going out are:

- The concentric flue system is not installed according to one of the methods detailed in Paragraph 3.4
- An incorrect “flue gas restriction plate” is fitted.
- The pilot light extinguishes if fumes are not exhausted or are insufficiently exhausted.
- The pilot light is either dirty or defective.
- Insufficient gas pressure.
- Thermocouple voltage is too low. This is usually caused by insufficient heating of the thermocouple by the pilot light.
- Dirty electrical contacts in the thermo-electrical system; for example, the thermocouple connection.
- Batteries in receiver or remote control are flat.

6 DISMANTLING / ASSEMBLING OF THE “HIDDEN DOOR” GLASS

6.1 HORIZON BELL XXL
HORIZON BELL XL
HORIZON BELL LARGE
HORIZON BELL LARGE TUNNEL

Dismantling of the glass:



- Horizon Bell

- Insert a pin in the hole in the side panel and push it upwards.

- Remove both side panels.

- Remove the bottom panel.

- Remove both screen panels.

- Remove both screen panels.

- Pull the bottom of the frame (glass) slightly forward and let it drop into the appliance.

- Pull the top of the frame (glass) slightly forward and remove it by tipping it forward out of the appliance

- The frame (glass) is now completely removed.

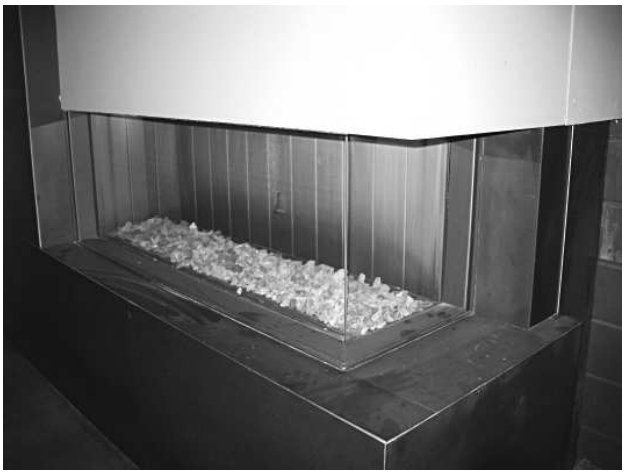
Assembling of the glass:

The assembly of the glass takes place in reverse order.

Important: The frame (glass) must fit tightly all round to the edge of the combustion chamber.

6.2 CORNER BELL LARGE L/R

Dismantling of the glass:



- Corner Bell Large - (Right)

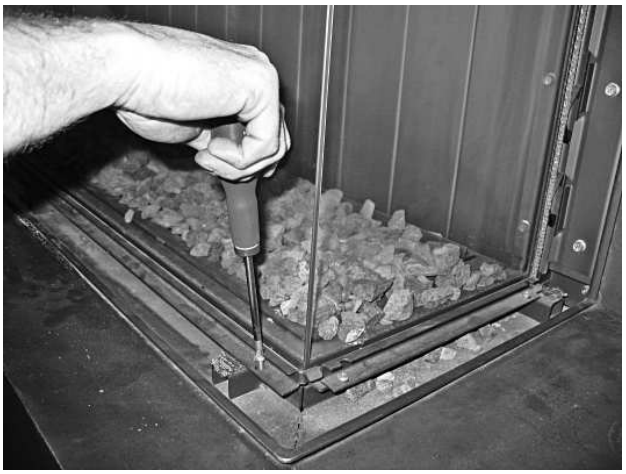
- Insert a pin in the hole in the bottom panel (on the short side) and pull it upwards.

- Remove the bottom panel.

- Pull the left side panel (on the bottom) forwards.

- Remove the left side panel.

- Pull the right side panel (on the bottom) forwards and remove it.



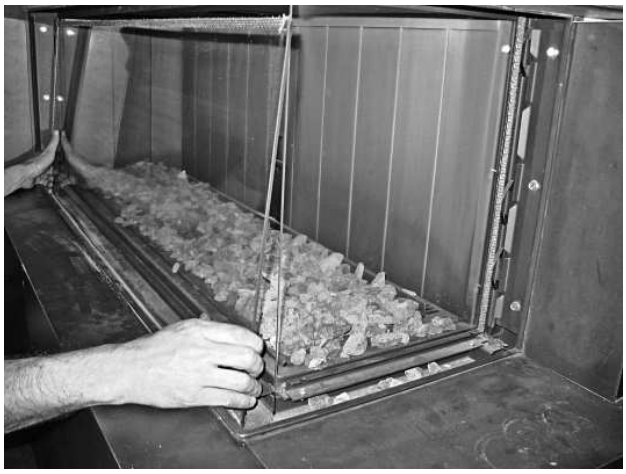
- Unscrew the long strip at the bottom.

- Remove the strip.

- Slightly unscrew the long strip on the top side.

- Leave the long strip at the top where it is.

- Carefully pull the bottom lower side of the glass forward.

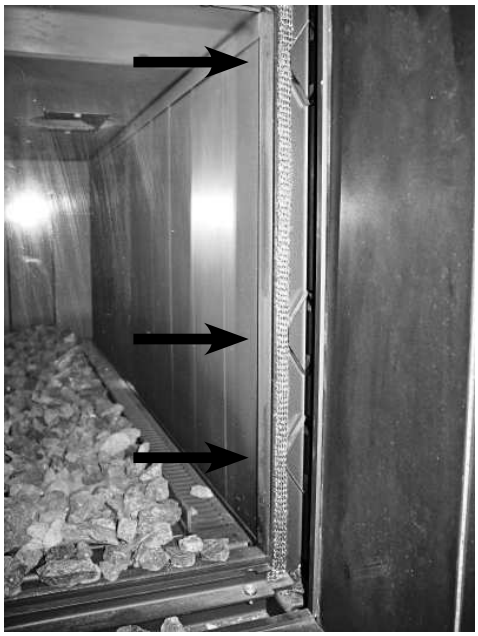


- Carefully allow the glass to drop downwards so that the top of the glass is also free.

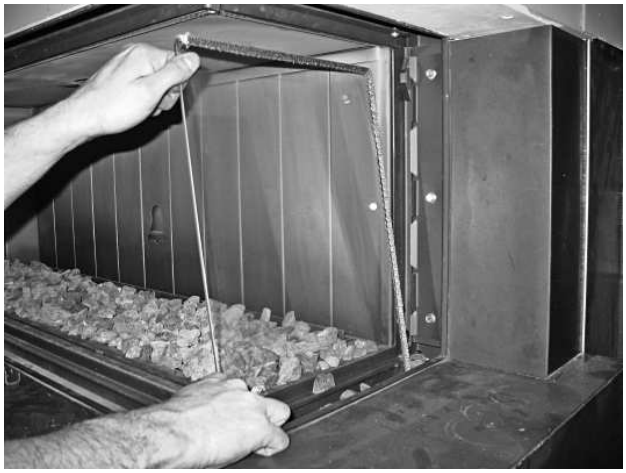
- Remove the glass at the front.

- Unscrew the short strip at the bottom and remove it.

- Slightly unscrew the short strip at the top.



- Remove the three tension springs.



- Remove the side glass.

All assembly strips at the top remain in their place !

Assembling of the glass:

The assembly of the glass takes place in reverse order.

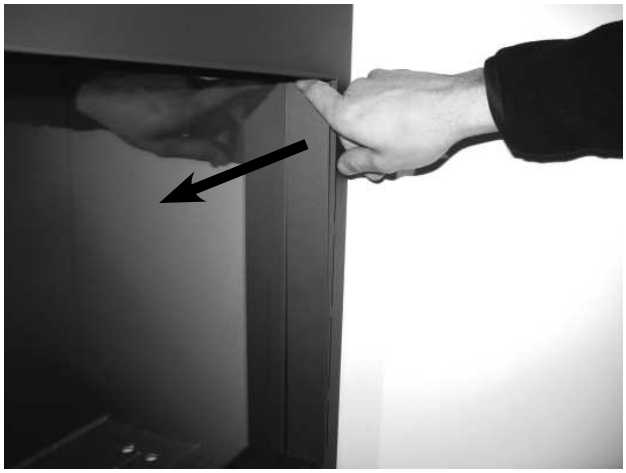
Important:

- The glasses must fit tightly together. There must be no gaps between the glasses.
- At the top, the glasses must fit tightly to the upper edge of the combustion chamber.

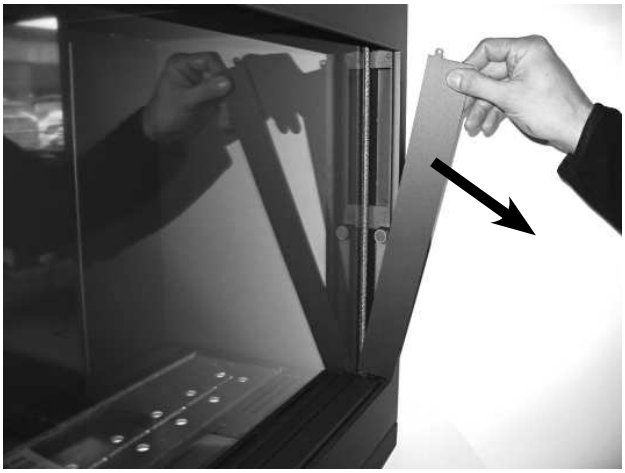
6.3 CORNER BELL MEDIUM L/R

Dismantling of the glass:

- Corner Bell Medium - (Left).



- Pull the side panel on the long side forwards, alongside the glass.



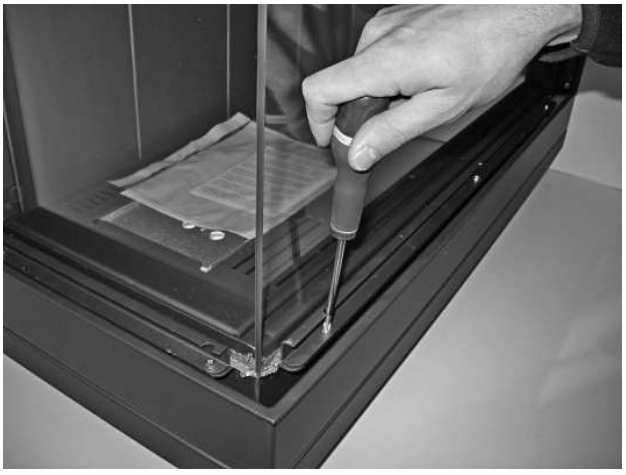
- Remove the side panel on the long side.

- Pull the side panel on the short side forwards, alongside the glass.

- Remove the side panel on the short side.

- Pull the bottom panel upwards on the short side.

- Remove the bottom panel.



- Unscrew the strip under the glass on the front side.

- Remove the strip on the front.

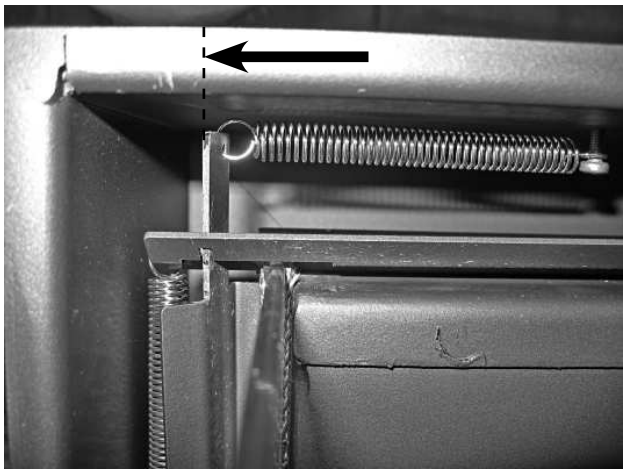
- Carefully pull the glass on the bottom side forwards, and slide it slightly sideways.

- Carefully pull the glass on the bottom side forwards, and slide it slightly sideways.

- Carefully allow the glass to drop downwards so that the top of the glass is also free.

- Remove the glass by tilting it forwards and removing it.

- Unscrew the short strip at the bottom and remove it.



- Slide the short top assembly strip outwards and hook it to the long top assembly strip.

- Slide the small glass forwards and remove it.

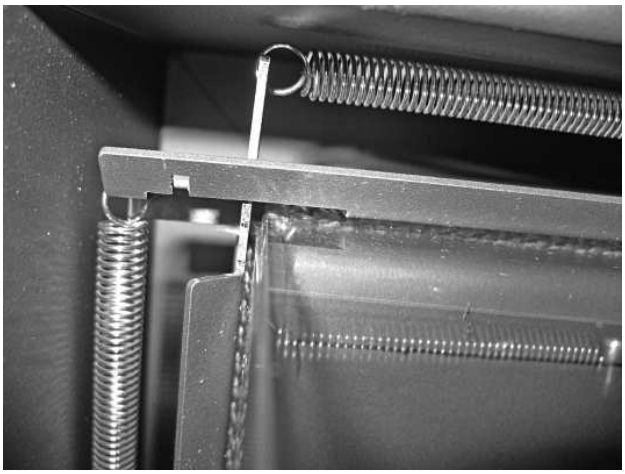
- Remove the tension spring when removing the small glass.

Assembling of the glass:

The assembly of the glass takes place in reverse order.

Important:
- The glasss must fit tightly together. There must be no gaps between the glasss.
- At the top, the glasss must fit tightly to the upper edge of the combustion chamber.
- Check that the draw springs on the assembly strips, on the top, remain in their proper place.
- Check that the assembly strips, on the top, are not hooked together.
- The tension spring is returned to its proper place.
  The middle of the tension spring is 12 cm from the lower edge of the side glass.

- Ensure that the glasss fit tightly to the upper edge of the combustion chamber.



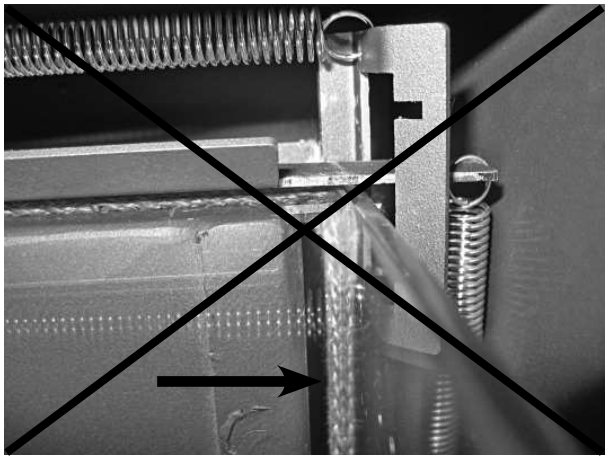
- Position draw springs and assembly strips on the top.
  Attention! Make sure that the strips are not hooked together!

Position tension spring

All assembly strips at the top remain in their place !

Example of a glass that does not fit properly at the front (top) to the top edge of the combustion chamber.
Cause: Small glass not fitted straight.
Danger of flue gas leakage!!!

- Small glass fitted askew.



- This means that the large glass (front) does not fit tightly to the upper edge of the combustion chamber. Danger of flue gas leakage!!!

- Solution: Press the large glass and small glass into their proper place, so that they fit tightly to the upper edge of the combustion chamber.

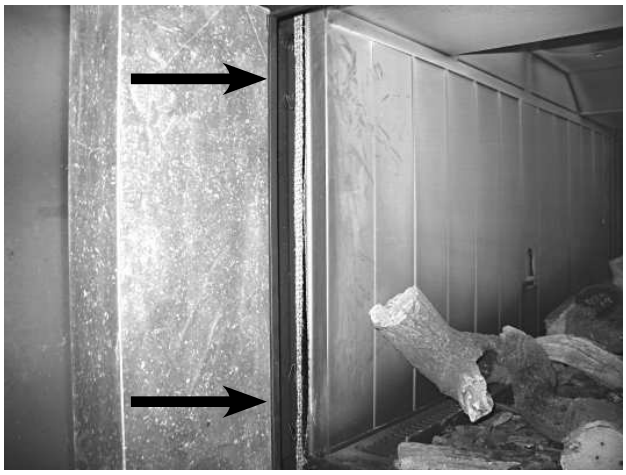
6.4 VIEW BELL LARGE

Dismantling of the glass:

- Insert a pin in the hole in the bottom panel and pull it upwards.

- Remove the bottom panel.

- Pull the left and right side panels (on the bottom) forwards and remove them.



- Position the tension spring behind the side glasss.

- Remove the tension springs behind the side glass, using pliers or screwdriver.

- Unscrew the long strip at the bottom and remove it.

- Slightly unscrew the long strip at the top. Do not remove the strip!

- Carefully pull the bottom lower side of the glass forward.

- Carefully allow the glass to drop down wards so that the top of the glass is also free.

- Remove the glass at the front.

- Slightly unscrew the short strip at the top (L/R).

- Unscrew the short strip at the bottom and remove it.

- Slide the small glass slightly forwards. Carefully allow the glass to drop downwards so that the top of the glass is also free.

- Remove the small side glass (Left and Right).

Assembling of the glass:

The assembly of the glass takes place in reverse order.

Important:

- The glasss must fit closely together. There must be no gaps between the glasss.
- At the top, the glasss must fit tightly to the upper edge of the combustion chamber.

6.5 VIEW BELL MEDIUM

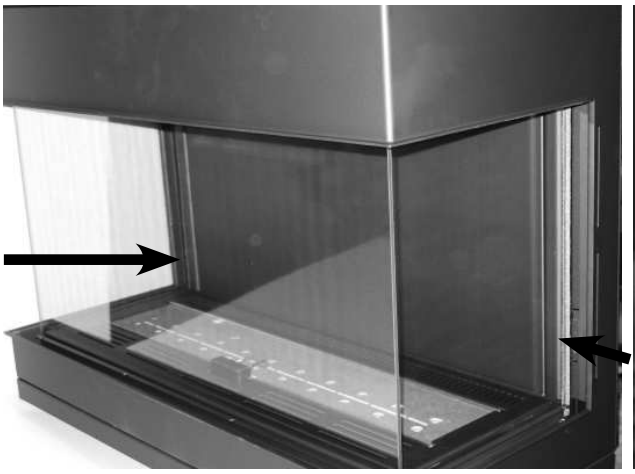
Dismantling of the glass:

- Using a screwdriver, push both side panels upwards.

- Remove both side panels.

- Pull the sides of bottom panel so that it moves upwards.

- Remove the bottom panel.



- Position the tension spring behind the side glasss.

- Remove the tension springs behind the side glass, using a screwdriver.

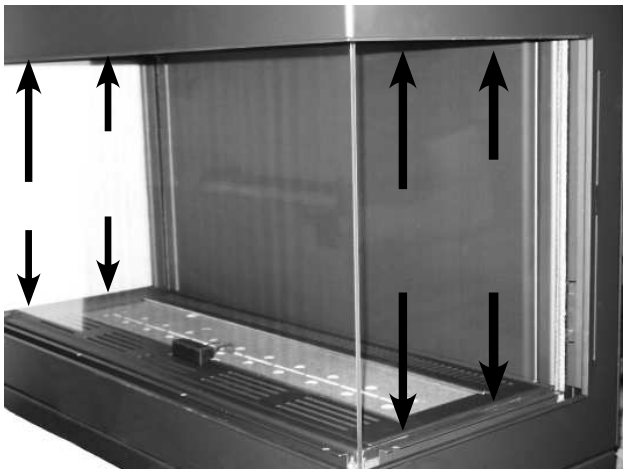
- Unscrew the strip under the glass on the front.

- Remove the strip on the front.

- Carefully pull the bottom lower side of the glass forward.

- Carefully allow the glass to drop downwards so that the top of the glass is also free.

- Remove the glass at the front.



- If so wished, the side glasss can also be removed by unscrewing and removing the strips at the bottom and slightly unscrewing the strips at the top.

All assembly strips at the top remain in their place !

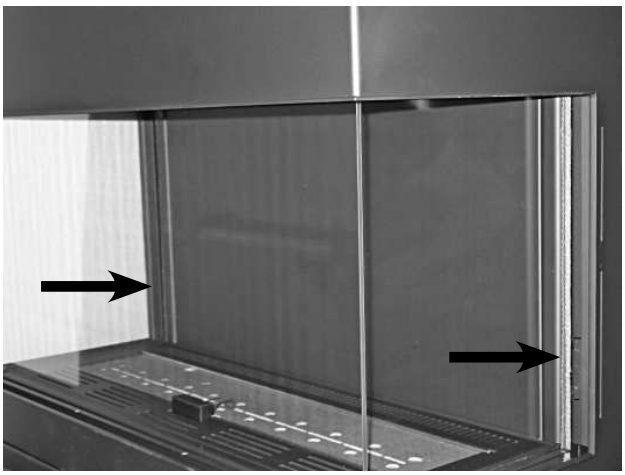
Assembling of the glass:

The assembly of the glass takes place in reverse order.

Important:

- The glasss must fit tightly together. There must be no gaps between the glasss.
- At the top, the glasss must fit tightly to the upper edge of the combustion chamber.
- Check that the draw springs on the assembly strips, on the top, remain in their proper place.
- The tension spring must be returned to its proper place. The middle of the tension spring is 12 cm from the lower edge of the side glass.

- Ensure that the glasss fit tightly to the upper edge of the combustion chamber.



- Position tension springs.

- Check the position and operation of the draw springs.

6.6 VIEW BELL ROOM DIVIDER LARGE
VIEW BELL ROOM DIVIDER MEDIUM

Dismantling of the large glass on one side:

- Remove the side panels by pulling them forwards and removing them.

- Remove the side panels by pulling them forwards and removing them.

- Remove the 2 bottom panels. (L-model)

- Bottom panel (L-model).

- Unscrew the long strip at the bottom.

- Remove the long strip.

- Carefully pull the glass on the bottom side forwards, and slide it slightly sideways.

- Carefully pull the glass on the bottom side forwards, and slide it slightly sideways.

- Carefully allow the glass to drop downwards so that the top of the glass is also free.

- Remove the glass by tilting it forwards and removing it.

All assembly strips at the top remain in their place !

Dismantling of the small side glass:

- Remove the 2 bottom panels. (L-model)

- Unscrew the short strip at the bottom.

- Remove the strip.

- Carefully pull the bottom of the glass forward.

- Carefully allow the glass to drop downwards so that the top of the glass is also free.

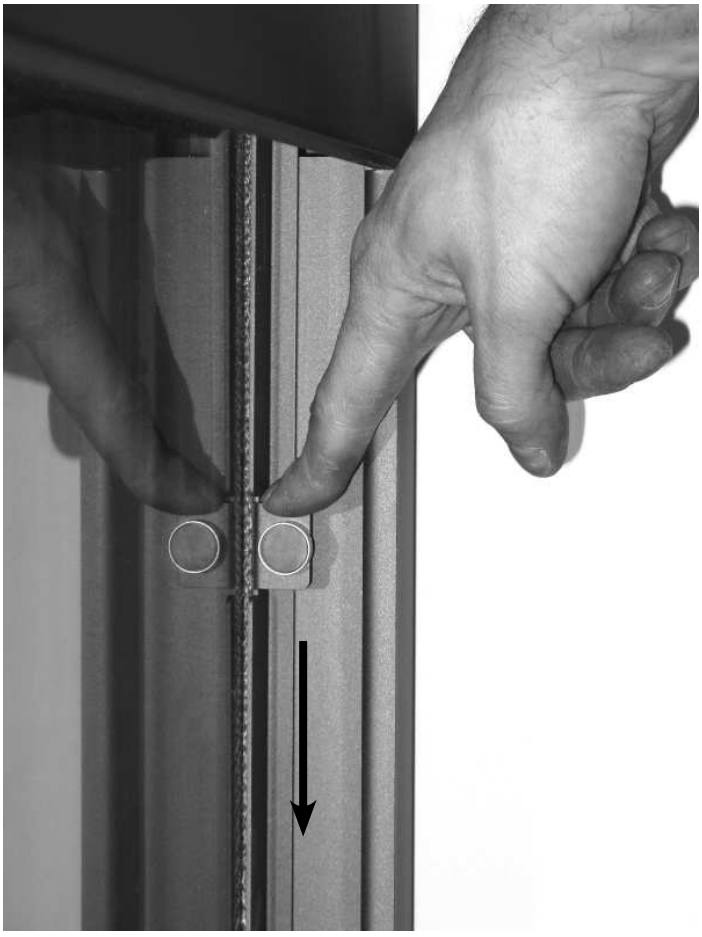
- Remove the glass by tilting it forwards and removing it.

Assembling of the glass:

The assembly of the glass takes place in reverse order.

Important:

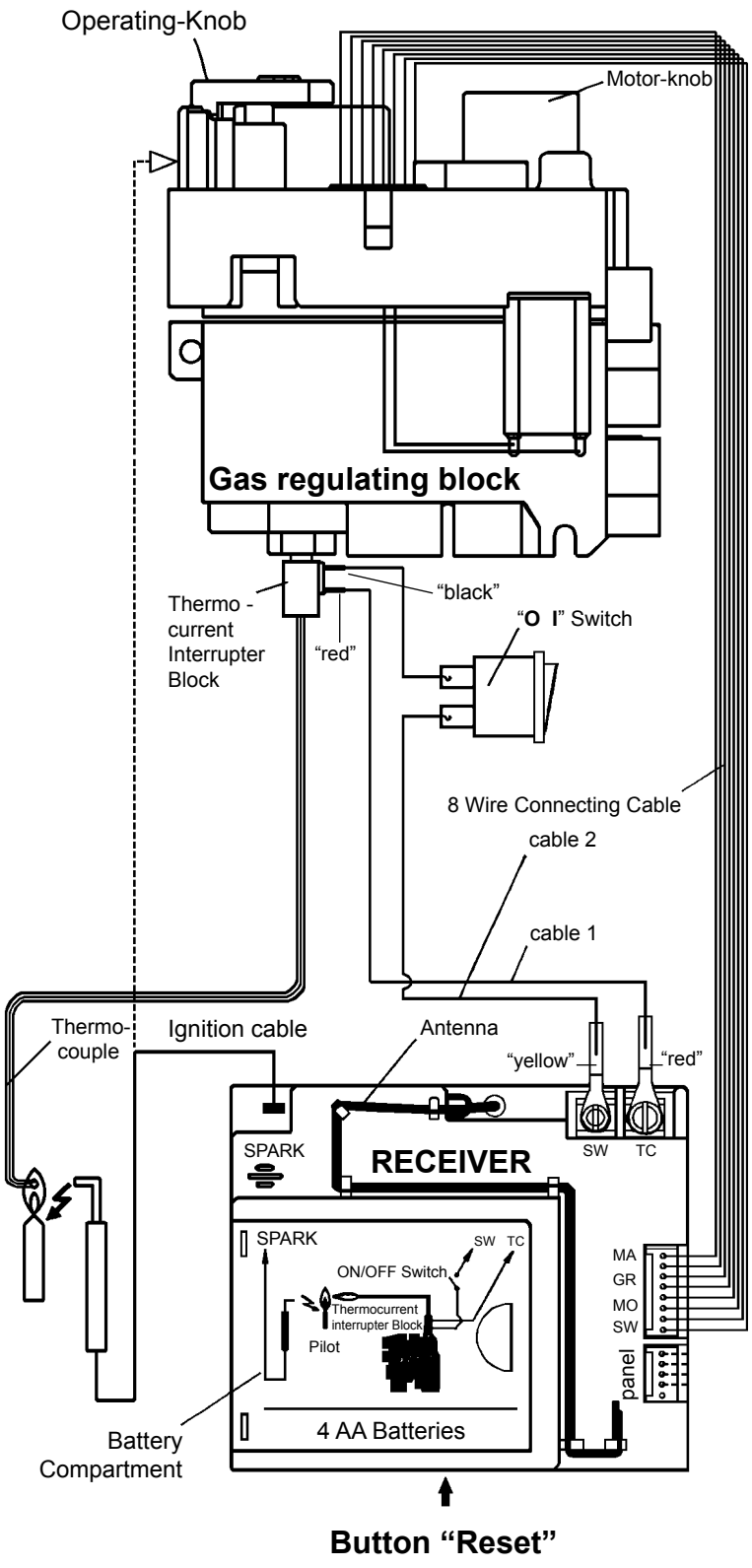
- The glasss must fit tightly together. There must be no gaps between the glasss.
- At the top, the glasss must fit tightly to the upper edge of the combustion chamber.
- Check that the draw springs on the assembly strips, on the top, remain in their proper place.
- After installing the glasss; push the side strips, to which the magnets are fitted, completely downwards.
  This means that the draw spring remains located in the proper position.



- After installing the glasss; push the side strips, to which the magnets are fitted, completely downwards.
  This means that the draw spring remains located in the proper position.

7 ELECTRICAL DIAGRAM

7.1 MODELS WITH REMOTE CONTROL

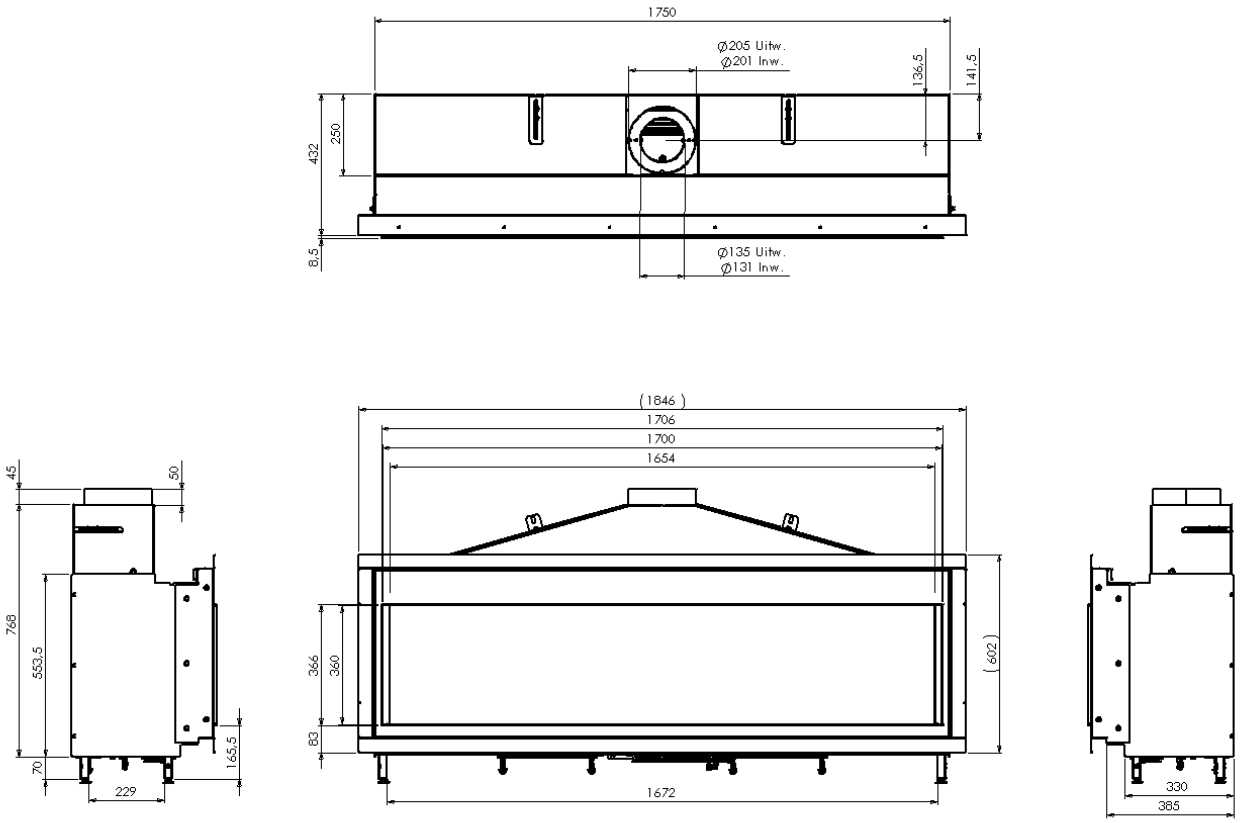


8 DIMENSIONS

(*) Available with control unit in appliance (bottom) or in separate operating unit, see page 101
(**) Control unit in separate operating unit, see page 101
(***) Control unit in appliance (bottom)

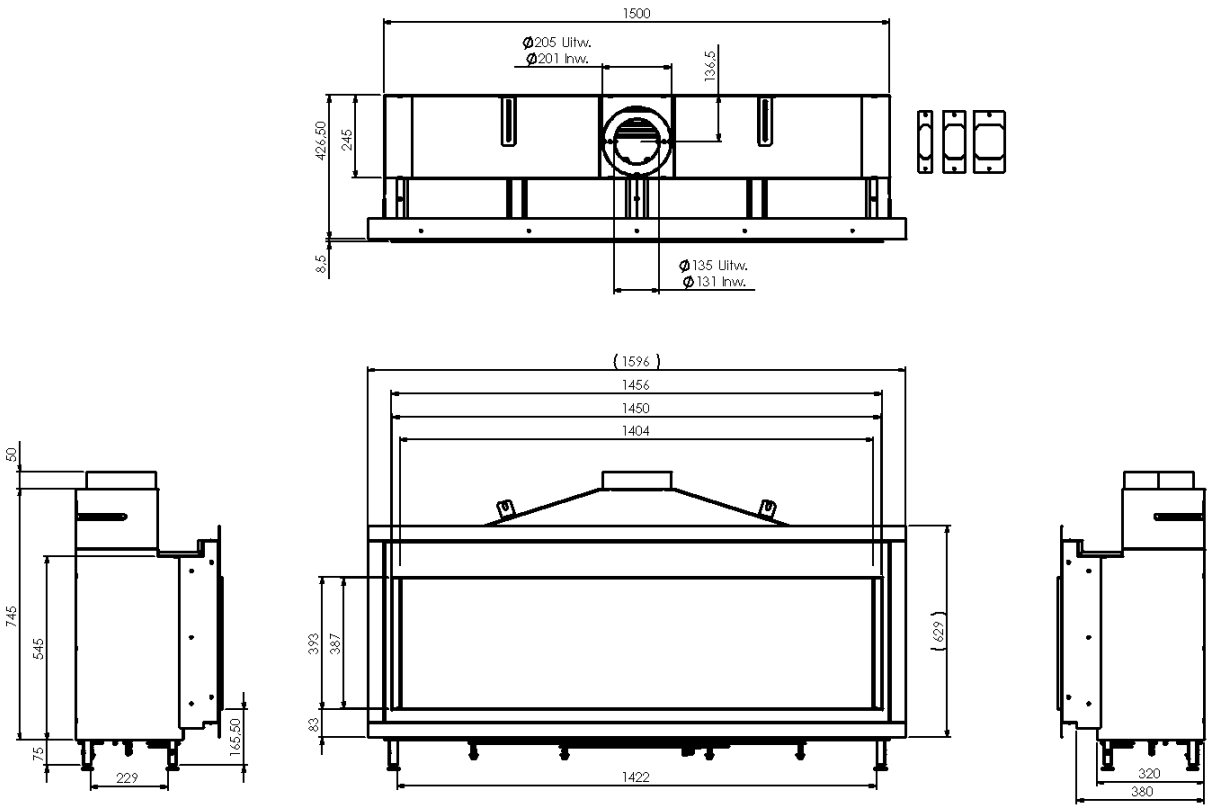
8.1 HORIZON BELL XXL (**)

8.1.1 HORIZON BELL XXL - Hidden Door



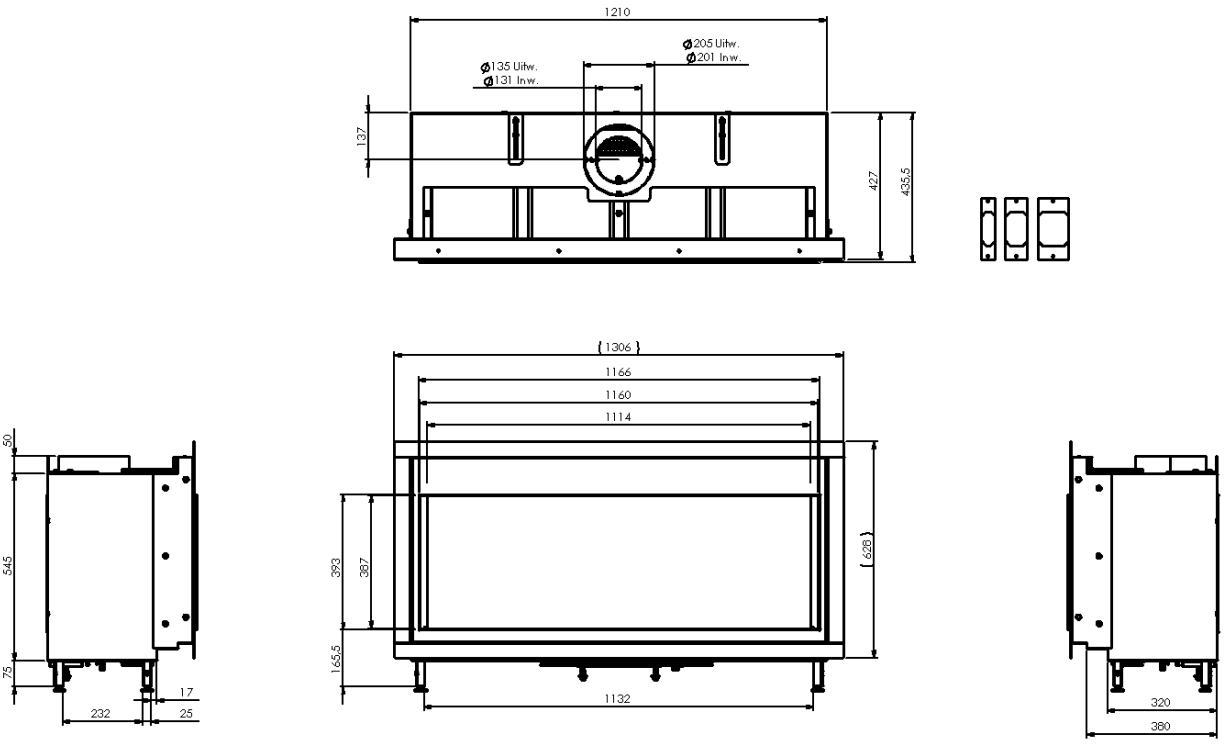
8.2 HORIZON BELL XL (**)

8.2.1 HORIZON BELL XL - Hidden Door

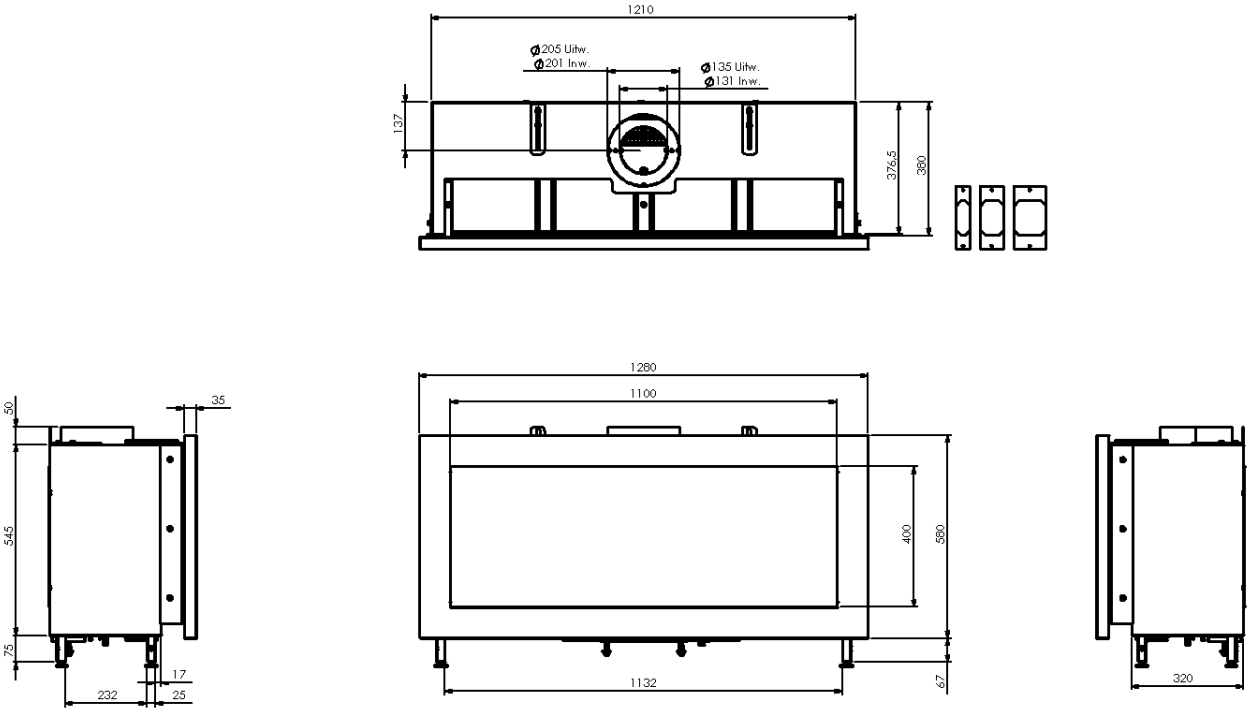


8.3 HORIZON BELL LARGE (**)

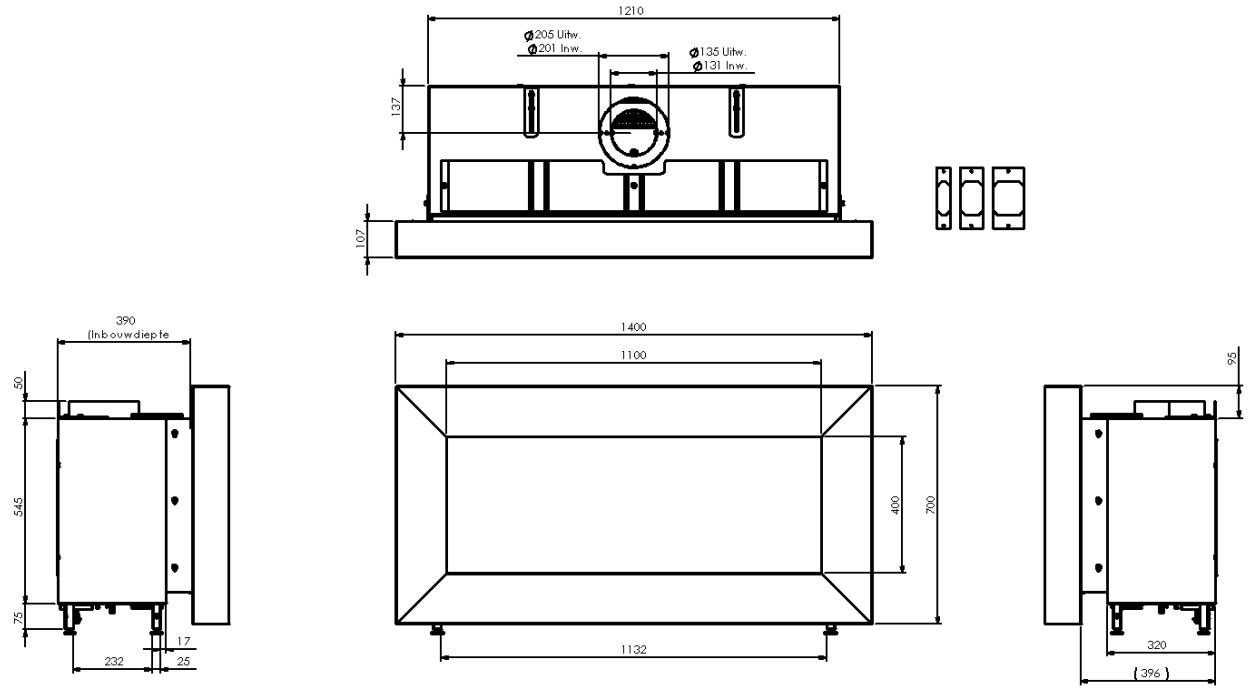
8.3.1 HORIZON BELL LARGE - Hidden Door



8.3.2 HORIZON BELL LARGE - Frame 9 cm

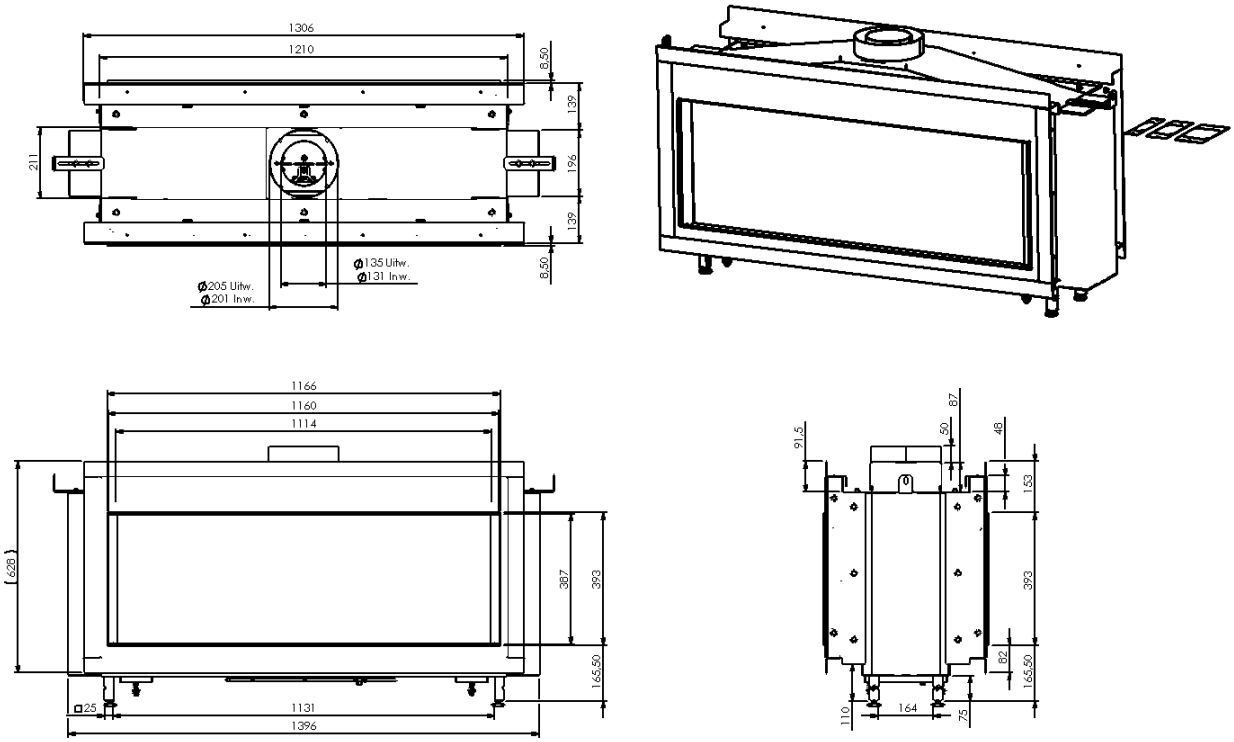


8.3.3 HORIZON BELL LARGE - Frame Roderick Vos

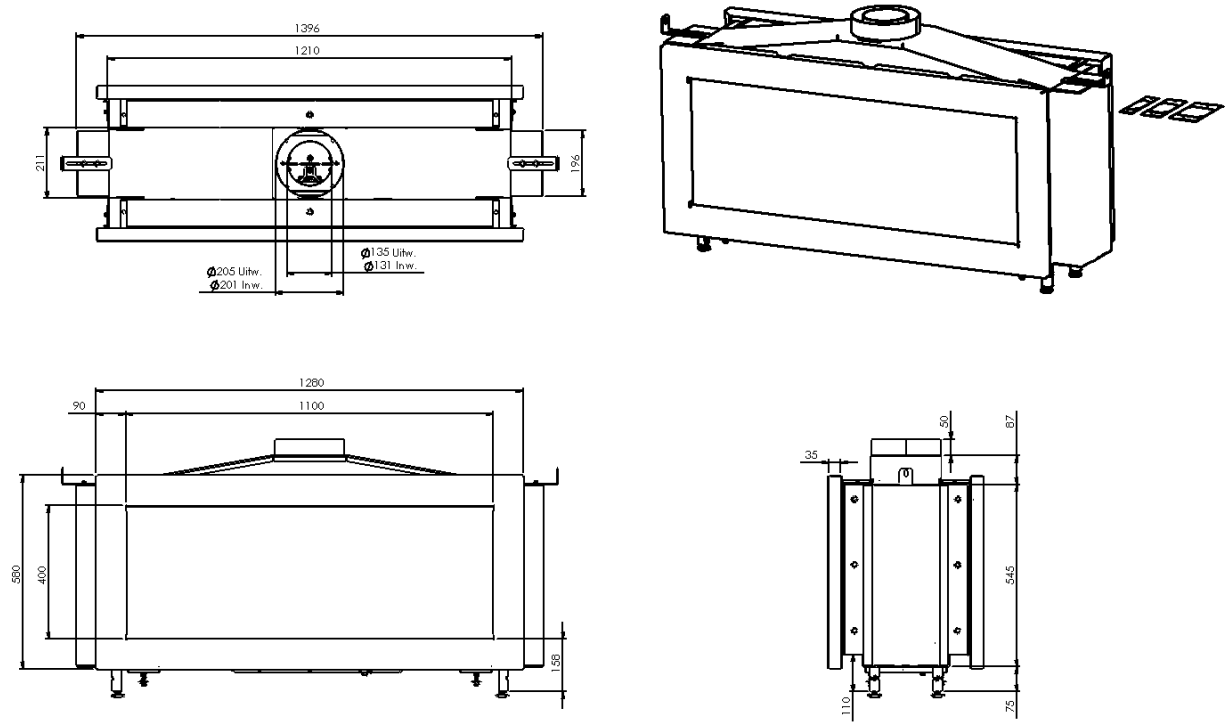


8.4 HORIZON BELL LARGE TUNNEL (**)

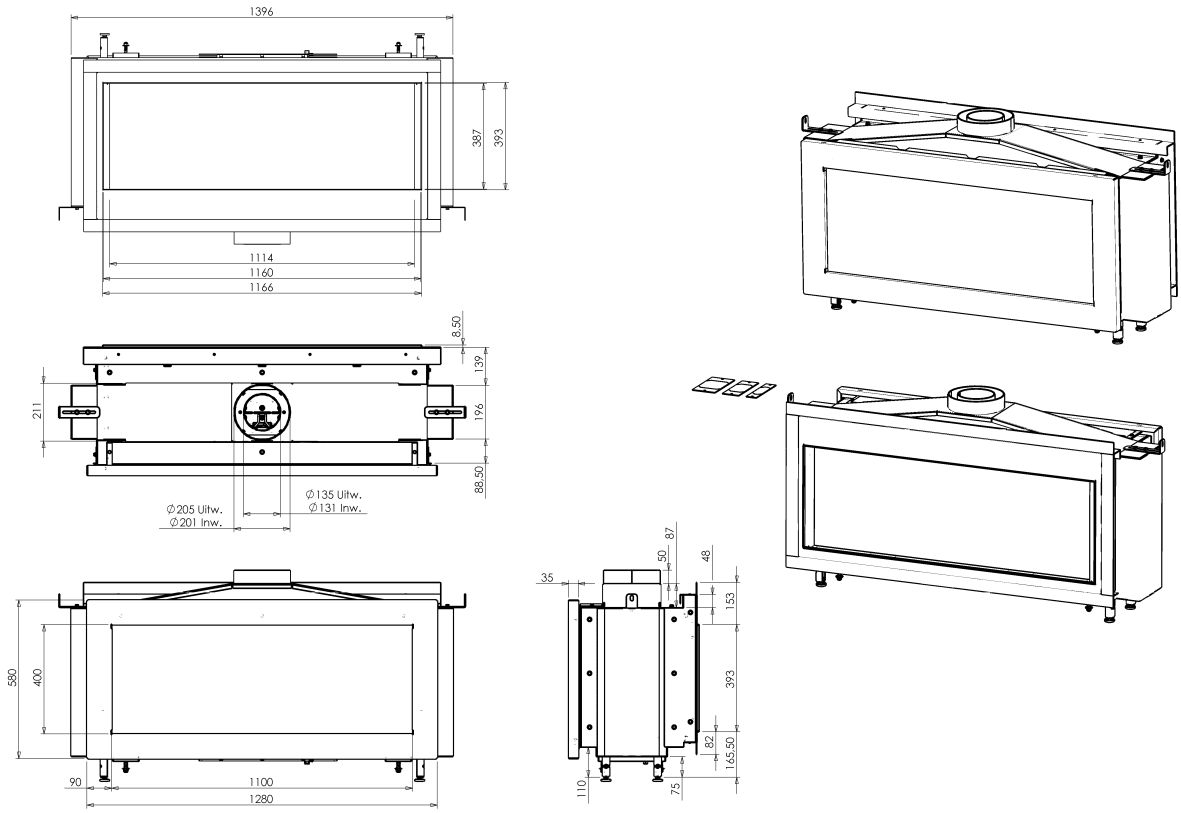
8.4.1 HORIZON BELL LARGE TUNNEL - Hidden door



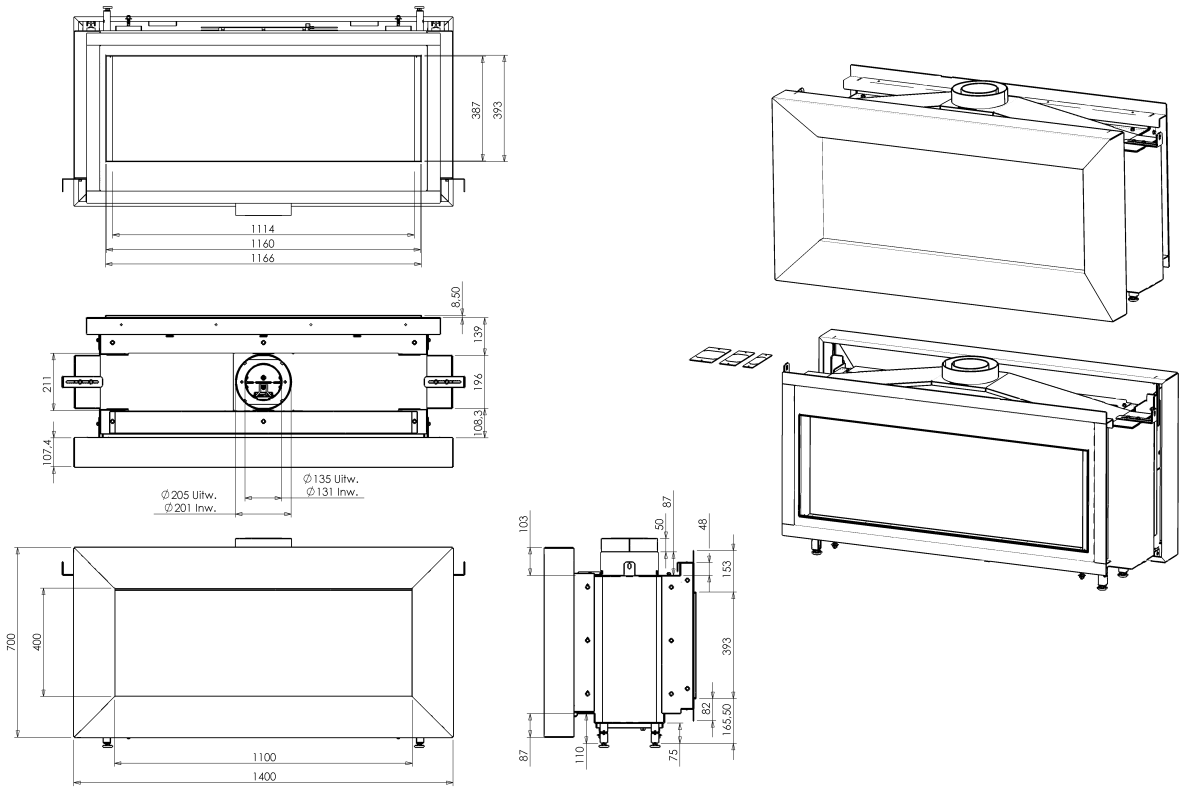
8.4.2 HORIZON BELL LARGE TUNNEL - Frame 9 cm



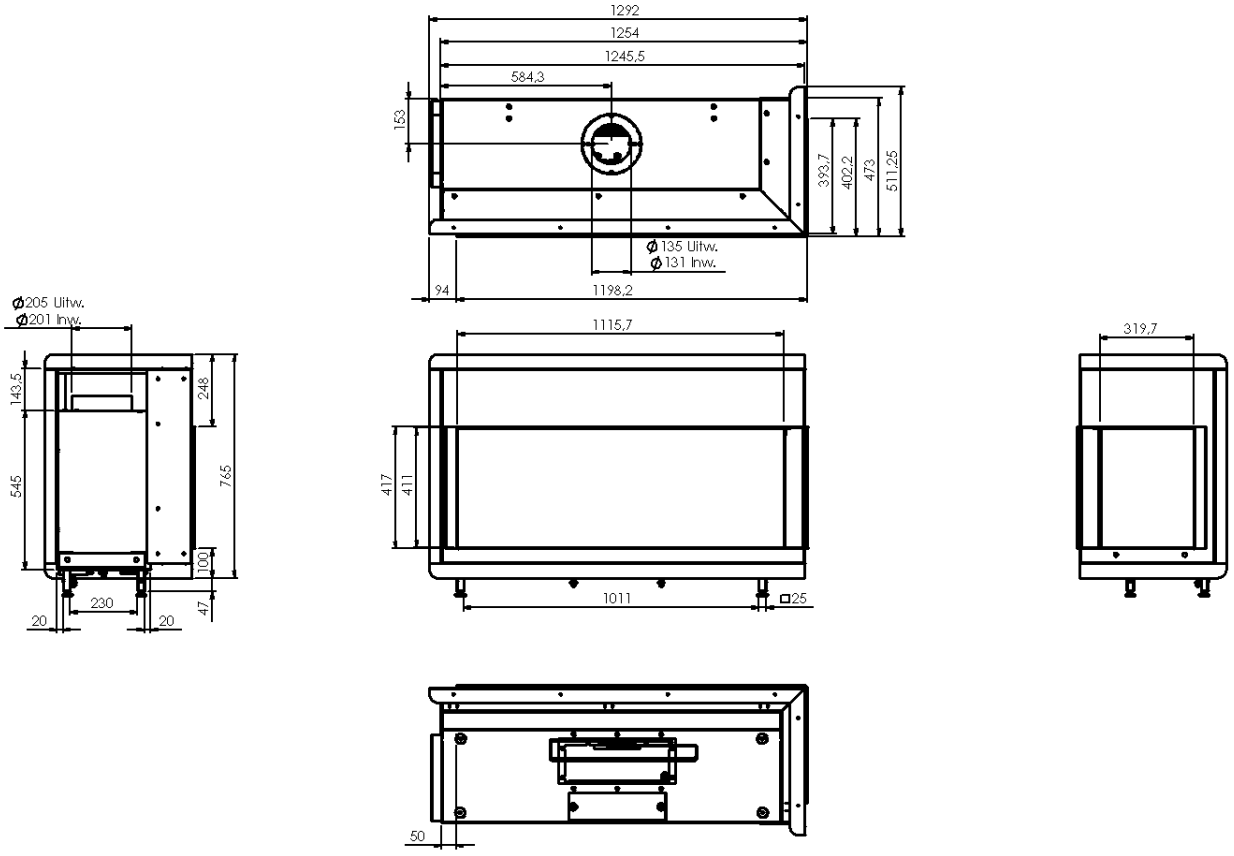
8.4.3 HORIZON BELL LARGE TUNNEL - 1x Hidden Door and 1x Frame 9 cm



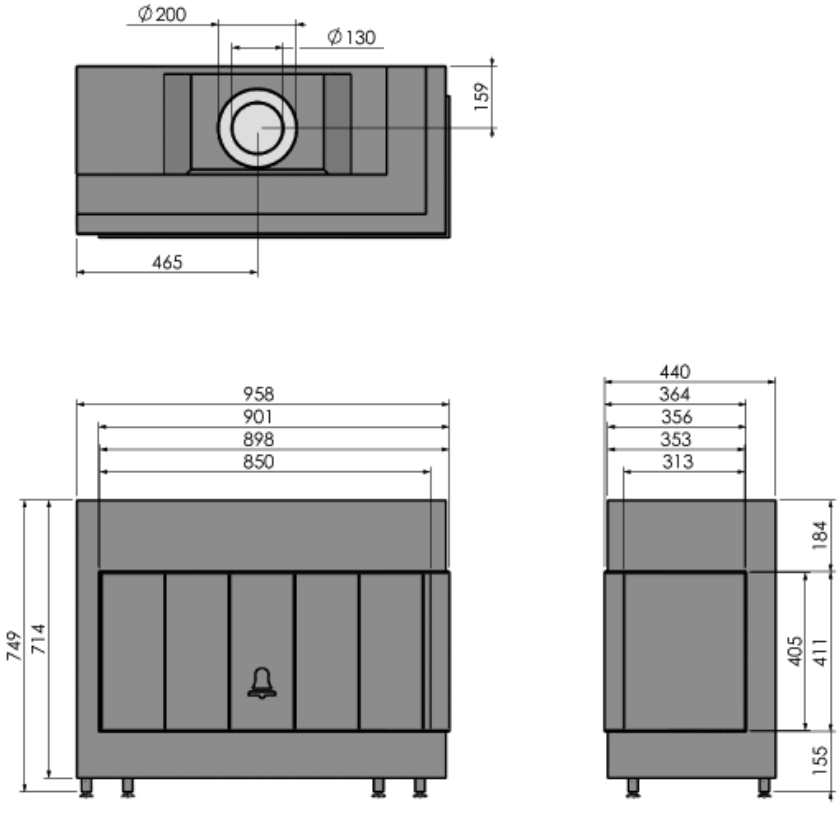
8.4.4 HORIZON BELL LARGE TUNNEL - 1x Hidden Door and 1x Frame Roderick Vos



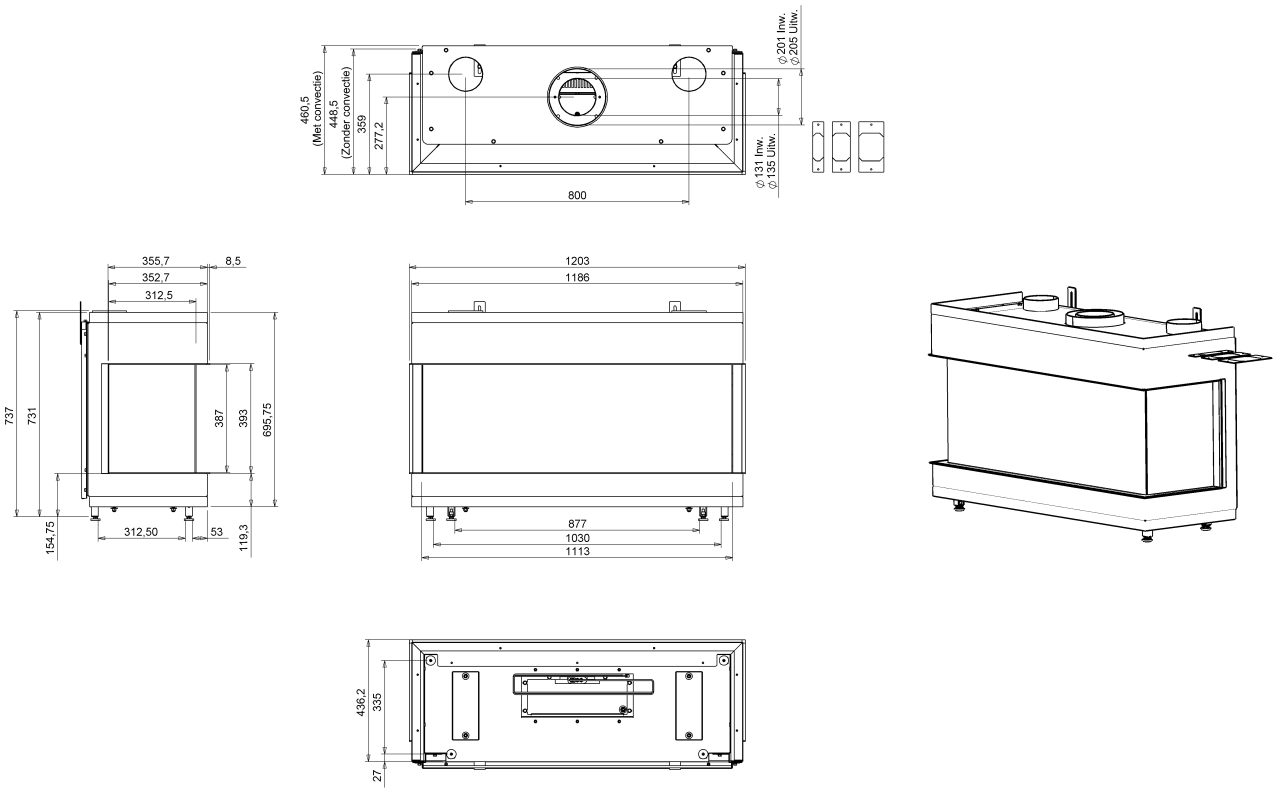
8.5 CORNER BELL LARGE R - Hidden Door (**)



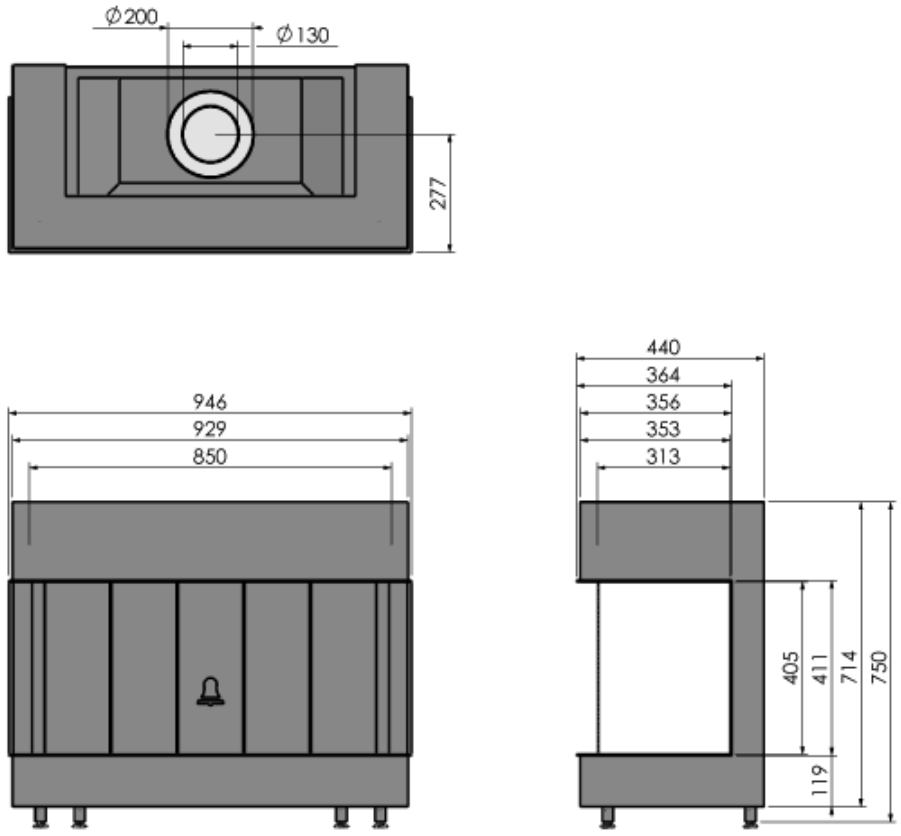
8.6 CORNER BELL MEDIUM R - Hidden Door (**)



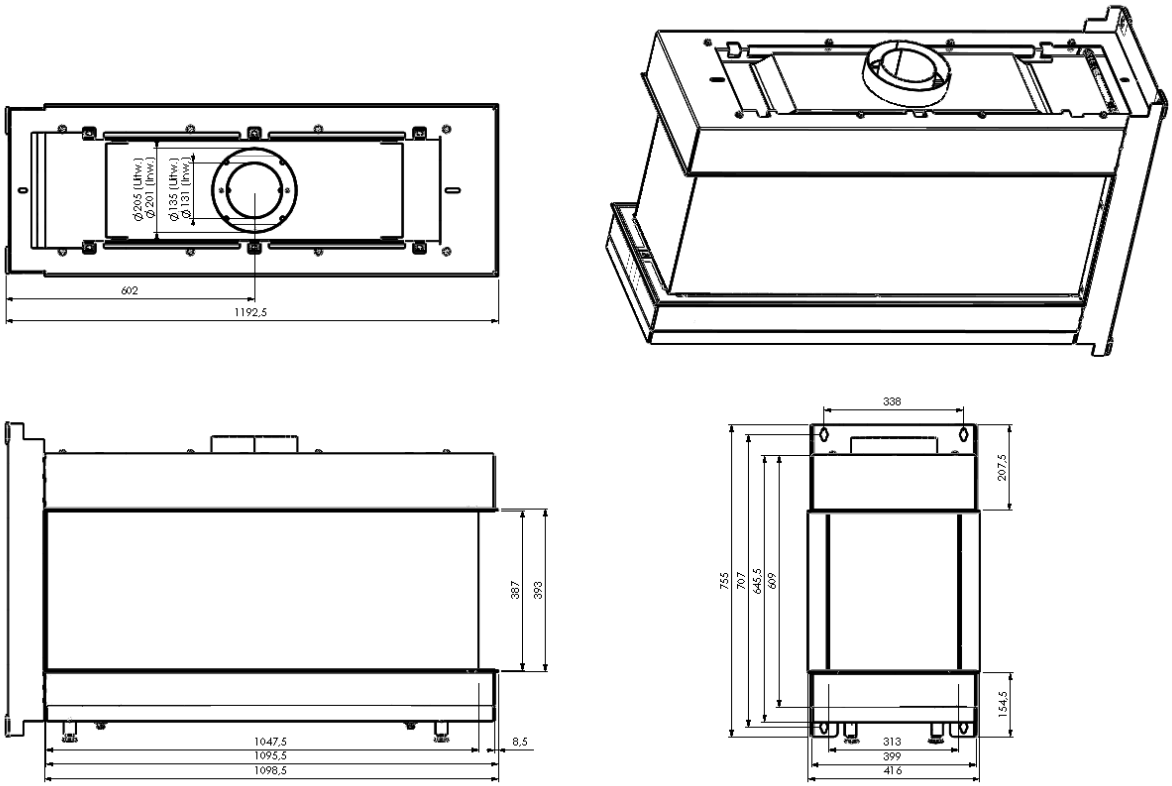
8.7 VIEW BELL LARGE - Hidden Door (**)



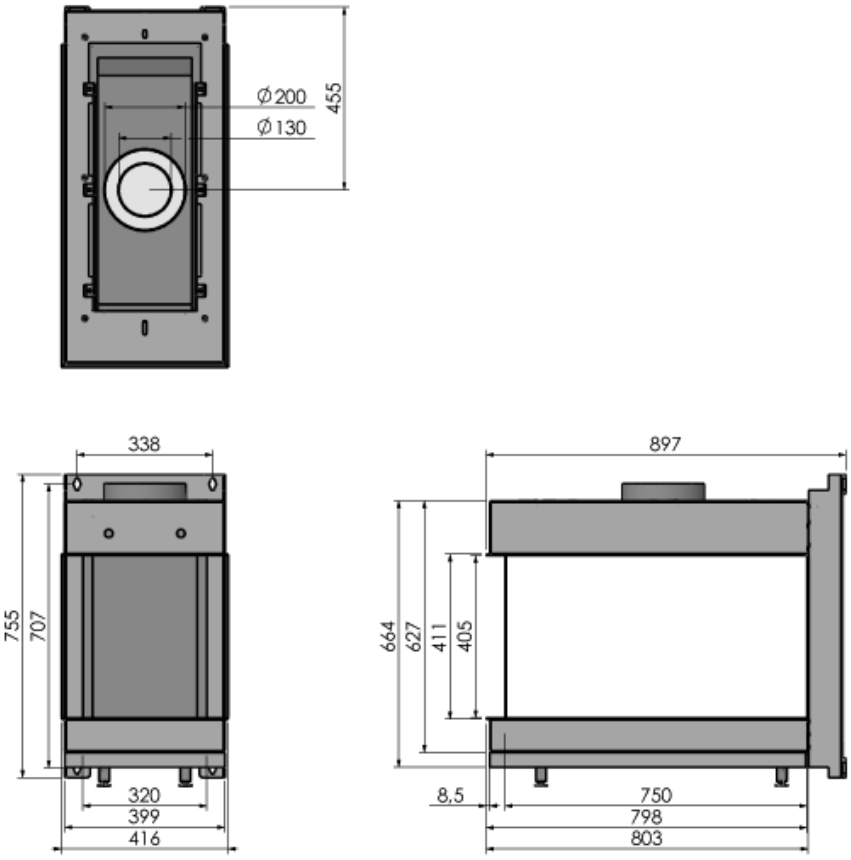
8.8 VIEW BELL MEDIUM - Hidden Door (**)



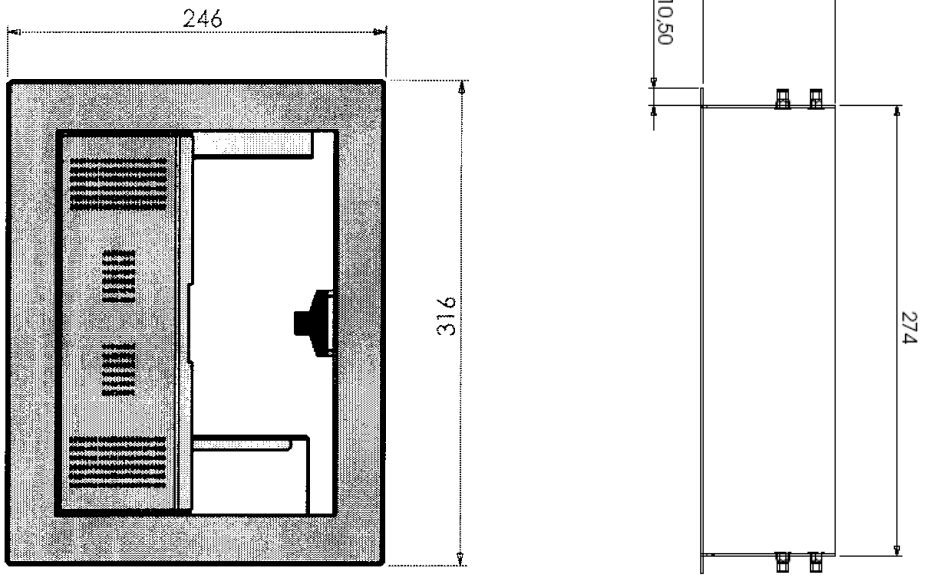
8.9 VIEW BELL ROOM DIVIDER LARGE - Hidden Door (**)



8.10 VIEW BELL ROOM DIVIDER MEDIUM - Hidden Door (**)



OPERATING UNIT



9 TECHNICAL DETAILS/REGULATIONS

National installation regulations:
Gas safety installation and use regulations 1984 plus all relevant safety and building regulations concerning fire installation

Model **: HORIZON BELL XXL**

Country	: **GB; Great Britain/IE; Ireland**	: **GB; Great Britain/IE; Ireland**
Product identification no	: 0063BT3024	: 0063BT3024
Type of appliance under CE-norm	: C_{11} / C_{31} / C_{31S}	: C_{11} / C_{31} / C_{31S}
Category of appliance	: I_{2H} natural gas G20	: $I_{3B/P}$ butane/propane G30/G31
Nominal heat input (Gross calorific value)	: 16.0 kW	: Butane (G30) : 13.8 kW Propane (G31): 12.0 kW
Nominal heat output	: 12.0 kW	: 8.2 - 9.3 kW
Efficiency class	: 2 (75%)	: 2 (76%)
NOx-class	: 5	: 5
Gas rate (max.)	: 1.50 m^3_s/hr.	: Butane (G30) : 1020 gr/hr. Propane (G31): 860 gr/hr.
Supply pressure	: 20.0 mbar	: Butane (G30) : 37.0 mbar Propane (G31): 37.0 mbar
Burner pressure (max.) Hot	: 11.0 mbar(*)	: 29.0 mbar
Burner pressure (max.) Cold	: 10.3 mbar(**)	: 29.0 mbar
Burner pressure (min.)	: 3.5 mbar	: 5.0 mbar
Gas regulator block (hand control)	: BM 733-234484	: BM 733-234484
Gas regulator block (remote control)	: Mertik GV 34 / GV 60	: Mertik GV 34 / GV 60
Main burner	: IGP 1617x140 mm Natural gas	: IGP 1617x140 mm Butane/Propane
Primary air inlet main burner	: 1x Ø15.0 mm	: 2x Ø20.0 mm
Main burner injector	: no 400 (= 1x Ø4.00 mm)	: no 18 / 380 (= 7x Ø0.71 mm)
Pilot light burner	: SIT 0.145.019	: SIT 0.145.019
Pilot light burner injector	: no 37 (SIT 0.977.132)	: no 23 (SIT 0.977.150)
Gas connection	: 3/8” G / Ø12 mm	: 3/8” G / Ø12 mm
Concentric flue system connection	: Ø130 mm - Ø200 mm	: Ø130 mm - Ø200 mm
Batteries remote control		
- Receiver	: 4x 1.5V AA	: 4x 1.5V AA
- Hand-transmitter	: 1x 9V block	: 1x 9V block

(*) : When the appliance has reached its thermal equilibrium.
(**) : Burner at maximum. Appliance is cold.

Flue gas exhaust and combustion air supply:
Roof-mounted outlet : Barbas concentric flue system Ø100 mm - Ø150 mm. Rigid and/or flexible.
Horizontal wall outlet : Barbas concentric flue system Ø130 mm - Ø200 mm. Rigid. With wall outlet Ø130 mm - Ø200 mm.

Heat changing surface: Entire front of the appliance.

Model **: HORIZON BELL XL**

Country	: **GB; Great Britain/IE; Ireland**	: **GB; Great Britain/IE; Ireland**
Product identification no	: 0063BT3024	: 0063BT3024
Type of appliance under CE-norm	: C_{11} / C_{31} / C_{31S}	: C_{11} / C_{31} / C_{31S}
Category of appliance	: I_{2H} natural gas G20	: $I_{3B/P}$ butane/propane G30/G31
Nominal heat input (Gross calorific value)	: 14.0 kW	: Butane (G30) : 13.8 kW Propane (G31): 12.0 kW
Nominal heat output	: 9.8 kW	: 8.2 - 9.3 kW
Efficiency class	: 2 (78%)	: 2 (76%)
NOx-class	: 5	: 5
Gas rate (max.)	: 1.33 m^3_s/hr.	: Butane (G30) : 1020 gr/hr. Propane (G31): 860 gr/hr.
Supply pressure	: 20.0 mbar	: Butane (G30) : 37.0 mbar Propane (G31): 37.0 mbar
Burner pressure (max.) Hot	: 15.0 mbar(*)	: 29.0 mbar
Burner pressure (max.) Cold	: 14.3 mbar(**)	: 29.0 mbar
Burner pressure (min.)	: 2.0 mbar	: 5.0 mbar
Gas regulator block (hand control)	: BM 733-234484	: BM 733-234484
Gas regulator block (remote control)	: Mertik GV 34 / GV 60	: Mertik GV 34 / GV 60
Main burner	: IGP 1350x140 mm Natural gas	: IGP 1350x140 mm Butane/Propane
Primary air inlet main burner	: 1x Ø15.0 mm	: 2x Ø20.0 mm
Main burner injector	: no 18 / 1200 (= 7x Ø1.27 mm)	: no 18 / 380 (= 7x Ø0.71 mm)
Pilot light burner	: SIT 0.145.019	: SIT 0.145.019
Pilot light burner injector	: no 37 (SIT 0.977.132)	: no 23 (SIT 0.977.150)
Gas connection	: 3/8” G / Ø12 mm	: 3/8” G / Ø12 mm
Concentric flue system connection	: Ø130 mm - Ø200 mm	: Ø130 mm - Ø200 mm
Batteries remote control		
- Receiver	: 4x 1.5V AA	: 4x 1.5V AA
- Hand-transmitter	: 1x 9V block	: 1x 9V block

(*) : When the appliance has reached its thermal equilibrium.
(**) : Burner at maximum. Appliance is cold.

Flue gas exhaust and combustion air supply:
Roof-mounted outlet : Barbas concentric flue system Ø100 mm - Ø150 mm. Rigid and/or flexible.
Horizontal wall outlet : Barbas concentric flue system Ø130 mm - Ø200 mm. Rigid. With wall outlet Ø130 mm - Ø200 mm.

Heat changing surface: Entire front of the appliance.

Model : **HORIZON BELL LARGE**
HORIZON BELL LARGE TUNNEL
CORNER BELL LARGE L/R
VIEW BELL LARGE
VIEW BELL ROOM DIVIDER LARGE

Country	: **GB; Great Britain/IE; Ireland**	: **GB; Great Britain/IE; Ireland**
Product identification no	: 0063BT3024	: 0063BT3024
Type of appliance under CE-norm	: C_{11} / C_{31} / C_{31S}	: C_{11} / C_{31} / C_{31S}
Category of appliance	: I_{2H} natural gas G20	: $I_{3B/P}$ butane/propane G30/G31
Nominal heat input (Gross calorific value)	: 11.5 kW	: Butane (G30) : 12.2 kW Propane (G31): 10.5 kW
Nominal heat output	: 8.3 kW	: 7.3 - 8.5 kW
Efficiency class	: 2 (80%)	: 2 (77%)
NOx-class	: 5	: 5
Gas rate (max.)	: 1.10 m^3_s/hr.	: Butane (G30) : 900 gr/hr. Propane (G31): 750 gr/hr.
Supply pressure	: 20.0 mbar	: Butane (G30) : 37.0 mbar Propane (G31): 37.0 mbar
Burner pressure (max.) Hot	: 10.6 mbar(*)	: 29.1 mbar
Burner pressure (max.) Cold	: 9.6 mbar(**)	: 29.1 mbar
Burner pressure (min.)	: 2.0 mbar	: 5.0 mbar
Gas regulator block (hand control)	: BM 733-234484	: BM 733-234484
Gas regulator block (remote control)	: Mertik GV 34 / GV 60	: Mertik GV 34 / GV 60
Main burner	: IGP 1022x140 mm Natural gas	: IGP 1022x140 mm Butane/Propane
Primary air inlet main burner	: 1x Ø15.0 mm	: 2x Ø20.0 mm
Main burner injector	: no 18 / 1200 (= 7x Ø1.27 mm)	: no 18 / 320 (= 7x Ø0.66 mm)
Pilot light burner	: SIT 0.145.019	: SIT 0.145.019
Pilot light burner injector	: no 37 (SIT 0.977.132)	: no 23 (SIT 0.977.150)
Gas connection	: 3/8” G / Ø12 mm	: 3/8” G / Ø12 mm
Concentric flue system connection	: Ø130 mm - Ø200 mm	: Ø130 mm - Ø200 mm
Batteries remote control		
- Receiver	: 4x 1.5V AA	: 4x 1.5V AA
- Hand-transmitter	: 1x 9V block	: 1x 9V block

(*) : When the appliance has reached its thermal equilibrium.
(**) : Burner at maximum. Appliance is cold.

Flue gas exhaust and combustion air supply:
Roof-mounted outlet : Barbas concentric flue system Ø100 mm - Ø150 mm. Rigid and/or flexible.
Horizontal wall outlet : Barbas concentric flue system Ø130 mm - Ø200 mm. Rigid with wall outlet, depending on the flue configuration; Ø100 mm - Ø150 mm or Ø130 mm - Ø200 mm.

Heat changing surface: Entire front of the appliance.

Model : **CORNER BELL MEDIUM L/R**
VIEW BELL MEDIUM
VIEW BELL ROOM DIVIDER MEDIUM

Country		: **GB; Great Britain/IE; Ireland**	: **GB; Great Britain/IE; Ireland**
Product identification no		: 0063BT3024	: 0063BT3024
Type of appliance under CE-norm		: C_{11} / C_{31} / C_{31S}	: C_{11} / C_{31} / C_{31S}
Category of appliance		: I_{2H} natural gas G20	: $I_{3B/P}$ butane/propane G30/G31
Nominal heat input (Gross calorific value)		: 11.5 kW	: Butane (G30) : 10.4 kW Propane (G31): 8.8 kW
Nominal heat output		: 7.3 kW	: 5.6 - 6.6 kW
Efficiency class		: 2 (70%)	: 2 (70%)
NOx-class		: 5	: 5
Gas rate (max.)		: 1.10 m^3_s/hr.	: Butane (G30) : 810 gr/hr. Propane (G31): 670 gr/hr.
Supply pressure		: 20.0 mbar	: Butane (G30) : 37.0 mbar Propane (G31): 37.0 mbar
Burner pressure (max.) Hot		: 10.0 mbar(*)	: 29.0 mbar
Burner pressure (max.) Cold		: 9.0 mbar(**)	: 29.0 mbar
Burner pressure (min.)		: 2.0 mbar	: 5.0 mbar
Gas regulator block (hand control)		: BM 733-234484	: BM 733-234484
Gas regulator block (remote control)		: Mertik GV 34 / GV 60	: Mertik GV 34 / GV 60
CBM-L/R	Main burner	: IGP 758x140 mm Natural gas	: IGP 758x140 mm Propane
	Primary air inlet main burner	: 1x Ø18.0 mm	: 2x Ø20.0 mm
VWBM	Main burner	: IGP 758x140 mm Natural gas	: IGP 758x140 mm Propane
	Primary air inlet main burner	: 1x Ø18.0 mm	: 2x Ø20.0 mm
VWBRDM	Main burner	: IGP 626x140 mm Natural gas	: IGP 636x140 mm Propane
	Primary air inlet main burner	: 1x Ø18.0 mm	: 2x Ø20.0 mm
Main burner injector		: no 18 / 1200 (= 7x Ø1.27 mm)	: no 18 / 280 (= 7x Ø0.62 mm)
Pilot light burner		: SIT 0.145.019	: SIT 0.145.019
Pilot light burner injector		: no 37 (SIT 0.977.132)	: no 23 (SIT 0.977.150)
Gas connection		: 3/8” G / Ø12 mm	: 3/8” G / Ø12 mm
Concentric flue system connection		: Ø130 mm - Ø200 mm	: Ø130 mm - Ø200 mm
Batteries remote control			
- Receiver		: 4x 1.5V AA	: 4x 1.5V AA
- Hand-transmitter		: 1x 9V block	: 1x 9V block

(*) : When the appliance has reached its thermal equilibrium.
(**) : Burner at maximum. Appliance is cold.

Flue gas exhaust and combustion air supply:
Roof-mounted outlet : Barbas concentric flue system Ø100 mm - Ø150 mm. Rigid and/or flexible.
Horizontal wall outlet : Barbas concentric flue system Ø130 mm - Ø200 mm. Rigid with wall outlet, depending on the flue configuration; Ø100 mm - Ø150 mm or Ø130 mm - Ø200 mm.

Heat changing surface: Entire front of the appliance.

10 REPLACEMENT PARTS LIST

When requesting service or ordering replacement parts, please quote the model type and serial number. All parts listed in this manual may be ordered from a Bellfires dealer.

No	Article no	Description
1	325674 1x Ø15 mm	Main burner Horizon Bell XXL Natural gas G20
2	325675 2x Ø20 mm	Main burner Horizon Bell XXL Butane/Propane G30/G31
3	310766 1x Ø15 mm	Main burner Horizon Bell XL Natural gas G20
4	310801 2x Ø20 mm	Main burner Horizon Bell XL Butane/Propane G30/G31
5	310767 1x Ø15 mm	Main burner HBL - HBLT - CBL - VWBL - VWBRDL Natural gas G20
6	310802 2x Ø20 mm	Main burner HBL - HBLT - CBL - VWBL - VWBRDL Butane/Propane G30/G31
7	325823 1x Ø18 mm	Main burner CBM - VWBM Natural gas G20 (= HBM / HBS burner Natural gas)
8	310803 2x Ø20 mm	Main burner CBM - VWBM Butane/Propane G30/G31 (= HBS / HBM burner Propane)
9	325822 1x Ø18 mm	Main burner VWBRDM Natural gas G20/G25 (= Derby burner Natural gas)
10	310805 2x Ø20 mm	Main burner VWBRDM Butane/Propane G30/G31 (= Derby II burner Propane)
11	326864	Burner mat 150 cm HBXXL
12	319455	Burner mat 130 cm HBXL
13	319452	Burner mat 110 cm HBL - HBLT - CBL - VWBL - VWBRDL
14	319453	Burner mat 90 cm CBM - VWBM
15	319454	Burner mat 70 cm VWBRDM
16	301919	Main burner injector Natural gas; no 400 (HBXXL)
17	325033	Main burner injector Natural gas; no 1200 (HBXL - HBL - HBLT - CBL L/R - CBM L/R - VWBL - VWBM - VWBRDL - VWBRDM)
18	325036	Main burner injector Butane/Propane; no 280 (CBM L/R - VWBM - VWBRDM)
19	325037	Main burner injector Butane/Propane; no 320 (HBL - HBLT - CBL L/R - VWBL - VWBRDL)
20	325038	Main burner injector Butane/Propane; no 380 (HBXXL - HBXL)
21	310995	Gas regulator block, BM 733 - 234484 (M9 Thermocouple connection)
22	301983	Nut Ø4 mm BM for pilot light pipe
23	301989	Olive Ø4 mm BM for pilot light pipe
24	301985	Nut Ø8 mm BM for burner pipe
25	301984	Olive Ø8 mm BM for burner pipe

No	Article no	Description
26	310984	Gas regulator block and remote control set; GV 60 (M10 Thermocouple connection)
27	302083	Plug 3/8 GV 34 / GV 60
28	302084	Nut Ø8 mm for burner supply GV 34 / GV 60
29	302089	Olive Ø8 mm for burner supply GV 34 / GV 60
30	302085	Nut Ø12 mm for gas supply GV 34 / GV 60
31	302090	Olive Ø12 mm for gas supply GV 34 / GV 60
32	302086	Cut-off nipple Ø4 mm GV 34 / GV 60
33	302067	Cable (sw): Receiver - Thermocouple interrupter, L = 500 mm
34	302150	Switch with short length of cable to thermocouple interrupter and long length of cable (tc), L= 500 mm, to receiver
35	310991	Hand-held transmitter: Display screen: Temperature and two programmes, receiver and 8 wire connecting cable L = 500 mm
36	302424	Hand-held transmitter: Display screen: Temperature and two programmes
37	302420	Receiver GV 60
38	302068	8 Wire connecting cable L = 500 mm
39	302421	Ignition cable 2x (2.8 x 0.5 mm) L = 1500 mm
40	321926	Thermocouple M10 - 1500 mm
41	301970	Thermocouple interrupter M10
42	322057	Thermocouple reductable swivel M10 x M9
43	325970	Thermocouple M10 - 2000 mm, incl. interrupter (HBXXL)
44	310908	Pilot light set outer casing, Double flame
45	310909	Packing pilot light set outer casing
46	324063	Pilot light injector; Natural gas; no 37
47	310912	Pilot light injector; Butane/Propane; no 23
48	310907	Piezo electrode for pilot light; 2.8 x 0.5 mm
49	302062	Nut piezo electrode
50	310905	Pilot light olive; Ø4 mm
51	301976	Pilot light nut; Ø4 mm
52	325905	Piezo electrode + cable, L = 2000 mm (HBXXL)
53	322552	Pilot light pipe; Ø4 mm, L = 1500 mm, Flexible, Stainless steel
54	325750	Burner pipe; Ø8 mm, L = 1500 mm, Flexible, Stainless steel - 10 kW+
55	326053	Pilot light pipe; Ø4 mm, L = 2000 mm, Flexible, Stainless steel (HBXXL)
56	325949	Burner pipe; Ø8 mm, L = 2000 mm, Flexible, Stainless steel (HBXXL)
57	326055	Nut; Ø8 mm, compression elbow main burner
58	326054	Olive; Ø8 mm, compression elbow main burner

No	Article no	Description
59	324308	Glass Horizon Bell XXL (408 x 1675 x 4 mm)
60	310841	Glass Horizon Bell XL (435 x 1425 x 4 mm)
61	310843	Glass Horizon Bell Large (Tunnel) - Hidden Door (435 x 1135 x 4 mm)
62	310842	Glass Horizon Bell Large (Tunnel) - Frame (435 x 1140 x 4 mm)
63	322059	Glass Corner Bell Large front (435 x 1136 x 4 mm)
64	320258	Glass Corner Bell Large side (435 x 330 x 4 mm)
65	328810	Glass Corner Bell Medium front (479 x 866,5 x 4 mm)
66	328361	Glass Corner Bell Medium side (479 x 325 x 4 mm)
67	324047	Glass View Bell Large front (461 x 1107 x 4 mm)
68	324048	Glass View Bell Large side (461 x 325 x 4 mm)
69	328360	Glass View Bell Medium front (479 x 850 x 4 mm)
70	328361	Glass View Bell Medium side (479 x 325 x 4 mm)
71	325833	Glass View Bell Room Divider Large front/rear (430 x 1064 x 4 mm)
72	325832	Glass View Bell Room Divider Large side (430 x 313 x 4 mm)
73	328777	Glass View Bell Room Divider Medium front/rear (448 x 768 x 4 mm)
74	328778	Glass View Bell Room Divider Medium side (448 x 313 x 4 mm)

Logs - Chips of wood - Embers - Vermiculite granules - Marble pebbles

Appliance	Log set											Chips of wood set	Embers with Glow-effect Anthracite	Vermiculite no 4 black filtered	Marble pebbles set (white)	Marble pebbles set (grey)
	Set		Log no													
			1	2	3	4	5	6	7	8						
		Art. no:	xxxxx	xxxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx		3 pieces	Bag: 125 gr.	Bag: 50 gr.	Bag: 2,5 kg.	Bag: 2,5 kg.
Horizon Bell XXL	**A**	325291	2x	2x	1x	1x	1x	1x	1x	1x		2x	4x	1x	4x	4x
Horizon Bell XL	**A**	325291	2x	2x	1x	1x	1x	1x	1x	1x		2x	4x	1x	3x	3x
Horizon Bell Large	**B**	324460	1x	1x	1x	1x	1x	1x	1x	-		2x	4x	1x	3x	3x
Corner Bell Large L/R	**B**	324460	1x	1x	1x	1x	1x	1x	1x	-		2x	4x	1x	3x	3x
View Bell Large	**B**	324460	1x	1x	1x	1x	1x	1x	1x	-		2x	4x	1x	3x	3x
View Bell Room Divider Large	**C**	325292	1x	2x	1x	1x	1x	1x	-	1x		2x	4x	1x	3x	3x
Horizon Bell Large Tunnel	**C**	325292	1x	2x	1x	1x	1x	1x	-	1x		2x	4x	1x	4x	4x
Corner Bell Medium L/R	**F**	.....	1x	1x	-	1x	1x	1x	1x	-		1x	3x	1x	2x	2x
View Bell Medium	**F**	.....	1x	1x	-	1x	1x	1x	1x	-		1x	3x	1x	2x	2x
View Bell Room Divider Medium	**G**	.....	1x	1x	1x	1x	-	1x	-	1x		1x	3x	1x	2x	2x

11. DISPOSING OF PACKAGING AND APPLIANCE

The appliance comes in recyclable packaging.
This can include:

- Cardboard
- Wood
- Plastic
- Paper

Such materials must be disposed of responsibly, in line with local regulations.

Batteries should be disposed of as chemical waste. Batteries must be disposed of responsibly, in line with local regulations.

The authorities or fitter can provide you with information on responsible disposal of obsolete appliances.

INTERFOCOS B.V.
HALLENSTRAAT 17
5531 AB BLADEL
NEDERLAND
E-mail: info@interfocos.nl
Internet: www.interfocos.com

03 - 150910 - 324981